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JANUARY 1913

No 1

SECONDARY SCHOOL MATHE-MATICS AND THE MATHE-MATICS TEACHERS*

I chose for the subject of my address
"Secoedary School Mathematics and the
Mathematics Teachers," because I thought,
that a discourse on the Secondary School
Mathematics as it wes and as it ought to be,
and on the equipment of the Mathematic
teachers would be a fitting tetroduction to
your activities in connection with your
Association

I, therefore, first propose to briefly indicate the more select features in the Secondary School Mathematics es it was a few years ago and then put in a specified form some of the features in the modern agitation as regards the teaching of Mathematics and those compare the old with the new so that we may clearly greep the spirit of the new methode and thus he in a position to adopt them in actional practice.

In former yeers, tha traditional mathod of mathematical instruction in our echools requir ed that Geometry should be taught in a purely abstract manner, the idea being that Euchd, which was regarded as a model of purely

deductive logic, should be studied entirely with a view to the development of the logical faculty And the reselt was that the subject hegan with a set of shatract definitions, postulates and sxioms on which the enperetructure was to be huilt, the practical side of the enbject wes altogether neglected, no appeal was made to the spatial tetrition of the child, and any knowledge of space reletions which might have been imported by such a sindy was redeced to a misimum on account of the excessive insistence upon all the details of the syllogistic form, the atteetion heing engressed by the effort to commit to memory a long series of propositions of which the geometrical ocetent was exceeding. ly small On the other hand, Algebra, and to a great extent Arithmetic was taught without any reference to the logical aspects, but purely with a view to give a discipline in the formal manipulation of abstract symbols according to certain prescribed rules without sver attempting to understand what those symbols represented or how those rules were arrived at

That the average hoy is not by neutre appreciative of formel logic or of the purpose and meaning of obstract symbols was itelf considered a reason why the subjects so treated should be epecually insisted upon it was claimed that these subjects would call forth the nea of facolities which were very zero in the sverage by and were, therafore,

An address delivered by P V Seshn Aiyar, BA LI, Professor of Mathematical Physics Presdency College Medras before the Mathematics Section of the Teachers Association Teachers College Saidavet

thought to be is special need of development. That the subjects were found to be hard and repulsive by the mejority was not thought to be, by any means, a disadvantage. It was thought, on the other hend, that the bard discipline involved in their study developed a mental grit end involved a kind of morel training which were in themselves considered veluable, even granting that the intellectual results attained were comparatively small, At the present time, there is a widespread disestisfaction with the traditional methods both in their aims and in their results. The results obtained under the old system were deploreble. Many rejected the material which was for them wholly indigestable mental food and the aystem feiled to attain even ite own narrow ideals except lu the case of a very few who were gifted with a spenial aptitude for the enhiecta. And even these fortunate faw suffered from the effects of the parrow conception of education which lay at the base of the methods of instruction. For, the purely abstract treatment of the aphi-cts failed to disclose the intimate relations of the mathematical ideas with the physical experience in which these obstructions took their origin. That Enclid hed any relation with the problems of space, was seen by the majority of those who seffered neder the old system. only at a leter stage, if at all. That the obstract symbols used in Algebra were closely related to the concrete objects and thus the ese of those symbols involved an economy of thought, remained for the most part unappreciated. And even the very few who had acquired a good facility in the manisplation of these symbols came to appreciate these relations only after matere reflection in later life.

2

As e result of this growing discontent

with the old methods, and owing to the exertions of Associations like the London Mathematical Association, ell these have changed in England and in America and new methods are being introduced. And ee a consequence in India too, it is estisfactory to note that there is a gradual change though the change could be a little more rapid.

The methods of teaching edvocated at present largely coeform to the dictates of psychology and appeal to those interests which are atrongest in the everage boy.

His interests are rether practical than theoretical, therefore, it is thought that he must be interested with the epace relations on their practical side. Ha is not interested in formal logic, therefore it is thought that he should not be made to learn a series of propositions of which the object is not apparant to him. Anything chatract and altogether naw will be repulaive to him, therefore it is thought that Geometry should not begin with a series of abstract definitions and axioms but that they should be introduced only as they are wanted and that the subject should be built upon the previously existing apariel intuition of the child. Consequently, insteed of riding eggiest the most undeveloped aides of his mind, as was done neder the old avatem. Geometry, the ecience of apatial relations, is introduced by an observational and experimental study of the simplest spatial relations, verification by actual measurements playing an important part, and the formal deductive treatment of the subject is postpened to a later stage.

Again, the average boy does not readily move in the region of abstract symbolism. Therefore it is thought that Arithmetic should begin with the handling of concrete objects, models and the like, and that Algebra should be introduced as generalised Arithmetic with suitable geometrical and graphical illustrations and even this only at a stage when he feela the need for generalised symbols The average boy will be too impatient to

know whether his results are correct as can be seen from his readiness to refer to tha answers in a hook Hence books containing answers should not be put into his hands and this impatience on his part must be availed of in instilling in him the need for verifying and checking his results. The everage boy is averse to Ishorious exercises in manipulation and therefore, it is thought that he should not be hored with tiresome exercises such as the multiplication and division of very long numbers, the simplification of complicated fractions, factorization of loog algebraic expressions and solution of ingeniously mannfactured equations The average boy would like to know why on earth he is made to study these subjects and hence, it is thought that as for as possible, problems occurring in reel life, specially those that occur in his life should he set so as to make him realisa the close relation of Mathamatics with the physical universe and the life around him He has got much of spontaneous physical scrivity and likes to be doing something or other Therefore, it is thought, that he must be given exercises in paper folding and card board modelling in illus tration of the theoretical principles ha has learnt and that he should be made to tska messurements and manufacture his own data for problems in mensuration and heights and distances In short, the modern tendency may well be

expressed, as has been happily done by Professor Hobson, by the one word " Demo-

cratisation of Mathematical teaching," 10, "the transformation of the methods of teaching and the matter of instruction so as to meet the needs of those who are lacking in exceptional capacity for Mathematics," in other words the concentration of the attention of the educator, in a much greater degree than formarly, on the work of developing the minds of the average many, and not solely of those of the exceptionally gifted few

If that he the sum and substance of the modern tendency then, there naturally arises the criticism that justice will not be done to this minority who, by pateral aptitude, are capable of making much more rapid progress than the rank and file That is certainly e pertinent criticism and there is saoh a denger under the new system, but then we can avert this by making a special provision in our schools for the more repid advance of the specially gifted pupils by way of giving them some spec al exercises, and there is no fear at any rate in our country, that any such special provision would be regarded as undemocratio in principle

Thus far I have simply indicated on broad lines some of the undestrable features of the old system and some of the salutary changes advocated by the new school But the working out of these principles in detail is not an easy task The acceptance of a theory is one thing and the translation of it sata actual practice is altogether a different thing The latter is beset with many d fliculties and gives room to much difference of opinion In England, for example, it is nearly a decade since the new principles were universally accepted by all bodies and yet the sutroduct on of the reform methods into actual practice cannot be said to have come to a condition of equilibrium in that country. As judged from the text-books on Elementary Mathematics and from the current literature on the subject, one can see that there are others in respect of which the reform movement has not gone far enough, while there are others in respect of which the urer-outhosisatio reformers here shown a tendency to go too far. Also there seem to be many points which have given rise to much difference of opinion and which are cill at the discussion stage.

I chall berein draw your attention to come of the points which is my opinion have not yet been estisfectorily colved and which may well engage the attention of the Mathematica

teachers of this country. We have accepted the principle that Arithmetic must begin with the handling of noncreta objects, models and the like and that it must be well correlated with space work. Yet in the beginners' Arithmetics that are recently published, for icetance, Longman's Practical Arithmetics, you fied that the first exercises in space work that are provided in the booke relate to lines straight or corved and not to solids as one woold expect noder the new eyetem. Lines themeelves are abstractions from solid objects and hence observation and bandling of solid objects must certainly precede the exercises on lines. Again in the corriculum of studies laid down for nur Elementary schools you will find the item "space and sumber work." I baye asked several Elementary schoolmasters and Supervisors of Elementary schools as to what they are doing noder the item "space work." Many of them caudidly conferred in ma . that they did not know what exactly was meant by space work and that they were doing little or nothing order that item. I should think that, in the elementary ecbools, the pupils

should be given suitable exercises in paperfolding, paper-cotting, drawing of objects, countraction of colids with card-board, etc. And a enitable supply of such exercises is a field of work for you, my friends, both, when van are here and after you leave this college. Secondly, upe of the principles advocated under the new evetem is that we must interest the popils in the study of mathematics by giving them problems occurring in their own life and in the life around them. In the mane. facture of problems from real life an acto interest the Indian pepils, much hee to be dose by the Indian teachers. There lies open them a heavy responsibility in respect of this point sa there is a special danger in this connection. For, most of the text-books used in India are Eeglish publications and they naturally contain only problems taken from English life, which problems will have an air of nureality when set to Iedian atudents. In the hands of a teacher whu is not enfilciantly active and enthusiastin in his work, there is a likelihood of those text-books being tog closely followed and hence arises the enecial danger I have mentioned. I do not object to the use of English publications is onr echoole. Far from it, for we derive our inepiration and guidance only from Englishmen and English books ; but my contention is that the text books should not be too closely followed. In teaching principles we may well follow the English text-books hut in setting problems, we most take them from Indian life. Further even in England and America the reform school is not quite estisfied with the kind of problems to be found in the madern text-hooks. There the contention ie that there should be more of real applied problems taken from actual life than are to be found in the modern books. Is America some

three yeers ago, a regolar movement was set on foot for a collection of such real applied problems taken from actoal life, such as the life of the engineer, the architect, the agriculturist, the sorveyor, the architect, the significant flow pages of the journal called "The School Science and Mathematica" were set apart for the politication of soch prublems. Some and thought will have to be diene to Iodia too if we want that real problems should he set to our stodents so as to interest them in the study of Mathematics.

A third point I would like to refer to is the correlation of the several schrects of Mathemetics. The old system of treating the erveral sobjects of Elemeotery Mathema tics in water tight compartments is coondered artificial and mischiggons. The reform school waots that the sobjects shoold be well corre lated with one another so as to enable the students to realise that all Methematics is one and that it is only the different mathods of treatment that give rise to the different subjects Such a correlation will also lead to the hatter codereteodiog of the several sobjects. Io the modern hooks, this correla tioo is well effected as regards Arithmetic and Algebra and Arithmetic and Geometry bot as regards Geometry and Algebra, though some correlation is attempted, the exteot of such correlation caonot be said to he eatisfactory If you take any modern hook oo Geometry you find only practical, graphical and nomerical questions given in ahundaoce hot coly very few questions involving the use of Algebra except 10 coonection with the matter corresponding to old Euclid Book II

The ose of algebraio forms of expression and solution to the Geometry coorses is of

advantage to both Geometry and Algebra and that may be done without cocrosching upon the field of analytical Geometry which belongs to a later atage. For rostaces the notation may be more algebrase than at present Small letters may be used to represent summerical values and capital letters to decote pouls. This will cookle the students to recognise the relations of equality and inequality more readily. He will also be able to assembled propositions are metric and which are decomptive.

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Agaio many propositions may be stated to advantage in algebraic form thue giving definiteness and perspicuity and specially emphasising the notion of lanctionality Aigebraic etatemente ara soperior in point of brevity and concissoess nod they also prepare for the idea of functionality which is little onderstood by our High cohool stodents at present That is to sev some appreciation of the toffnence of changing one part of a configuration on the other parts of the coofiguretion cen be gained readily by the algebraic statement As illustrations of such atetements we have (1) A = 16h (2) 10 a right angled \triangle , $c^2 = a^2 + b^2$, (3) in any \triangle , ca = c1+b1 & 2ap where p is the projection of b on a. (4) to a @ Eochd III. 35 and 36 may he written ab = r2 - d2, (5) t2=sz, where the the tangent s, the whole escant and x the part ontaide It is not to be noderstood that the nenal atatement of propositions should be replaced by algebraic etatements hot it is only means that one form should be translated into the nther

Further gaometrical exercises for algebraio solution may be largely gives I mean exercises like the following:—'I) area of rectangla is 480 sq. in If each side is one inch longer the area is increased by 47 sq. in, Find the sides; (2) a secant which passes through the centre of a circle of radius f2 in. meets a tangent 15 in, long. Find the length

of the external part of the secant, &c., &c. Thus, gentlemen, a greater correlation of Algebra with Geometry is a subject which

may well sugage the attention of our teachers. Fourthly I should like to refer to a point in respect of which the over-enthusiastic reformers show a tendency to go to the other extreme. It is true we bays accepted the principle that in the teaching of Mathematics, we must proceed from the practical, concrete and experimental side of the subject to the more abstract and theoretical side of it. But the scenel translation of this principle into practice appears to have gone to an undesiroble extent. In England, it is feared at present, and the recent text-books give room for such a fear, that the purely practical side of Mathematics is unduly emphasised. Though the teaching should commence with this side and should never lose touch with it, yet the study of Mathematics must be pronounced to be a relative failure as an educational instrument. i.s, as an instrument for training boys and girls to think accurately and independently, if it fails to rise beyond the purely practical espect of the subject to the domain of principle. In this country also, I em afraid, there is a notion obtaining in some quarters that under Elementary Mathemetics of the School Leaving Certificate acheme, we have to teach only practical Methematice pure and simple and that it would be enough if the students are able to perform the processes, no matter whether they nuderstand or not the principles involved in those processes. This, I beg to submit, is an erroneous notion. Practical Mathematics may provide a set of practical rules for dealing with practicel problems of

epecial types: but they can never give the students the culture claimed for Mathematics nor the power to effectively attack problems of various kinds that may arise in their future life in connection with professional work. Such a power can be found only in persons who possess a real grasp of methematical principles es distinct from a mere knowledge of certain prescribed rules and methods. I have thus noted down in detail four of

the points which have either not been ectio-

factorily solved or in respect of which there

is still some difference of opinion. Many more such points can be enumerated such as: (1) the desirability of the inclusion in our High School curriculum of some radimentary and informal treatment of the properties of simple figures in Solid Geometry, similarly the inclusion of (a) Elements of Trigonometry, (b) Elements of Mechanics, (c) Elements of Calculus :

(2) the desirability of having one and unly one sequence in respect of geometrical theorems:

(3) the introduction of limits and incom-

mensurables in the school; (4) the judicions use of graphs ;

(5) a entisfactory introduction to parelle! atraight lines ;

(6) provision of some field-work in Elementary Geometry in connection with problems on heighte and distances ;

(7) the treatment of contracted methods and approximation :

(8) introduction of logarithms, etc., etc.

Gentlemen, I have thus indicated to you the spirit of the reformed methods and drawn your attention to come of the points which have not yet been satisfactorily solved and which may well engage the attention of the Mathematice teachers of our country.

Now I pass on to the questions, what should be the equipment of the teacher and haw should the educational system of the country be organised so that the reform methods may be worked out in detail in the right direction.

First of all it must be understood that, the better the theory underlying the methods of instruction, the more exseting will be the demands made upon the skill, the knowledge oud the energy of the teacher Therefore, heresfter, it will not do if the teaching of Mathematics be entrusted to a teacher who has not made a special study of the subject The old method of making the pupils repeat by rate propositions of Euclid, or of cetting a long row of aums in Algebra and long lug in the chair must go If the results honed for under the new methods should be attained, a high degree of proficiency un the part of the teacher is very essential He must have a broad knowledge of the subject reaching much beyond the range which he has directly to teach I should think that to be an efficient Secondary school teacher, une should have gone through a thorough course to Areth metic. Algebra, Geometry and Elements of Trigonometry and a fairly good course in Trigonometry, C. llege Algebra, Aualytical Geometry and the Flements of Calculus Also a course in the History of Mathematics and some work in Theoretical and Practical Physics may profit ably be included in the programme. Not only should be have gone through such a general course in Mathematics but he should also be elever and alert in handling a class and he must possess a high degree of skill to present ing his material, that skill having been devel oped by training in a training college where the programme should scelude (1) a course in child psychology and theory of knowledge,

jects by specialists, and (3) ectual teaching nuder the supervision of such specialists In this connection, it is gratifying to see that your College as organised at present and being manued by special sts does satis factorily provide all these courses only such a teacher as has gone through a general course and a pedagogical course in Mathematics that can feel confident to speak with authority on the subject and it is only auch a une that will be hold enough to come forward with suggestions in the detailed development of the reform methods England and Germany none but Mathematica graduates are entrusted with the teaching of Secondary School Mathematics and those countries consequently show a great proficiency in Mathematics But here in India it is only uf late that we have begun to entrust the teaching of Mathematics to Mathematics graduates and that too only in the upper forms of our Secondary Schools Unless and until all the teachers of our Secondary schools sucluding those in the lower forms engaged in the tosehing of Mathematics are Mathe matics graduates we caunot hope to have the reform methods satisfactorily sutroduced ento nur country. In this connection we should be glad to note that in the proposed model schools, the salaries to be paid to teachers will, as judged from a recent proposurement of Mr. Montage be such as to make it possible to arcure the services of graduatea as teachers in those schools ever well engapped the teacher may susually be, he cannot hope to do ustico to his work unless I e manages not to forget the Mathematics le has fearnt while at college and nuless he keeps himself constantly in touch with the current literature on Hementary Maihe-

(2) abservation of the teaching of the sub

7

matics as found in the journale and magazines. Forther and after all, the proper equipment of the teacher is only one part of the organization occessory for the purpose. We have seen that the actosl translation into practice of the reformed methods leads to moch difference of opinion and involves many difficulties. Consequently, continued discussion of the details, comparison of notes and exchange of ideas among the teachers are very essectial and will be of idestimable value in direction aright the detailed development of the reformed methods of teaching. And this work can and onght to be done in connection with the Teachers' Association of the Presideouy and it is exactly here that I have a melaucholy tale to tell you. I am sorry to have to remark that the Mathematics teachers of our Secondary Schools do not seem to be very enthusiastic in the matter of this exchange of ideas and enumparison of notes as regards the detailed development of the reformed methods. It is seldom that you meet with a teacher coming forward with his experiences to the introduction of the reformed methods; not that he is too self-sufficient and thinks that he has puthing to learn or nothing to teach. On the other hand he simply looks on to other people to work not even the details for him and he wishes to be told definitely as to what exactly he shund do. So inng as the teachers continue to be merely passive workers, i.s., not taking the initiative themselves but merely willing to du what they are asked to do, we cannot expect the reformed methods to be satisfactorily introduced. I make this observation about the teachers from personal experience. As the Secretary of the Mathematics Science Section of the Madras Teachers' Goild I wanted that the section

should do some work in the direction of the detailed working out of the reformed methods, but the teachers of this town do not come forward with noy experiences of their uwn norace they very acxious to take part in any of the discussions that may be led by some individual teachers.

Further, the detailed development of the

reform methods requires that teachers should be given a good latitude and a free hand in the teaching of the several enhicats and fortnoately such a latitude and freedom is made possible under the present School Final echeme. The S. S. L. C. Board, while drawing up the syllabusee in the several onbjects, seem to have bad this point prominantly before them, viz., that there should be left some scope for individuality and freedom for thateather, and they therefore porposely gave only the main headings in the saveral syllabuses leaving it to the teacher to fill In tha details. Also in the papers set for the Pablic Examination a good choice is being given to the students so that if a teacher has developed the enbiects in his own war and emphasised certain parts of the subjects more than others, studente taught by him mey not suffer in the examination. And, rentlemen. would you believe me when I eav, from actual personal experience, that our teachers instead of thanking the authorities for giving them this freedom and this coope for individuality, do blame them for these very thinge end esy that the syllabuses are vague and iodefinite and they are left in the dark as to what to omit and what not to omit in the severel subjects. In short, they ory "Take away from as this freedom and this scope for individuality; give us cut and dried definite syllabuses worked out in detail and if possible give us one hook

where we can fied all that we have to do This, gentlemen, is o deplorable state of affairs end I have given you this little hit of my personal experience with the teechers nut with a view to find fault with them, but fur the purpose of appealing to you, young teeobers, to devote soms ettantion to the reformed methods when you are in this col lege and to go forth to the ranks of the teaching profession with a love and enthusiasm for the reformed methods so that the sutroduction of those methods suto our country may ere long become an accomplished fact The present set of teachers were hitherto andaly infloenced by examinetious and were working to dread of them, their aim being chiefly to make their stodeots ness those examinations and they were also accustomed to follow too closely certain prescribed textbooks Bot now the rigoor of the examination is removed, and instead of text books you bave general outlines of syllabuses and the teachers tostend of feeling themselvss mora free and beppy, want to be confined to precombed text hooks and enveloped in detailed avilaboses. It looks just like a man who. having spent e pretty long life in confine ment, feels onhappy when released and wishes to be sent back to his prison Fortonately you, my young friends, will be beginning your work as teachers under very favourable nonditions Yun are to he trained here ouder specialists for the teaching of your subject and when you enter his as teachers, you are allowed a great deal of freedom in the dstailed development of the reformed methods Only you must guard yourselves against extremes For that you must place your experiences before your brother teachers, compare notes and exchange ideas with them Also you must be constantly looking

into the modern up to-dete books and reeding the current literature on the subject as found in the journals and magazines of an elementary charecter. And then there can be no doubt thet you will all be ancessful teachers. Your hoys will have no reason to hate the eabject of Mathematics ee did the boys of old. The knowledge of Mathematics they get will un fonger be bookind. The everage hoy will be eble to apply his Mathematics to problems that may arise in his professionel work and the grifted one will have had a good grounding for burn to develop into a great mathematicism.

THE SIMPLIFIED SPELING

For liem in the grantest Inovator and if Tiam, ov cors sultar Things to the wors and Windom and Counsel abel not sultar them to the beter what shall be the end?"

THE Editor ov the Proneer, the organ ov the Simplified Speliog Sosieti, revvoing the wure ov the passt yeer riets in the Desember number thue - 'We ar satisfied becauz we are begining to see regults. The tedsa or apeling reform haz been braot to the noetis ov those interested in the English langwin un a was which haz comsanded their priest atenshop Among those he hav sound maar men and wimsu in the fruit rauc ny nur pashunal lief. The list ov members. which wil shortly he savud, will be welcomed az convinsing evidens uv the wai in which nur cana apeelz not cents to the edvacasshoust, but to the scolar, the sientist, the biznes man-indeed, to intelijent men and wimen in every cauling "

This is fudeed ten welcom nyus. The ware ny the South Indiao Braanch has in

meni respects, been ecowali uncursities. The hod ov the Branob, it is wel ta remember, is not an adjuctishonist, but a brillant financer, cleer-ied and fel ov enthunisum for the caus. The subject ov Epeling reform has been cept prominently before the public that the medium we thus pres and hi menution letter the medium we thus pres and his menution at cell increes. And who it most important ov and, Indian ecoulars sterre ha ar activation english in the tree three processes.

The upu yeer in theirfor fall or promis for the canz or rashonal speling. Mech uroust and satation efort with necessari, or coers, before the wols or ignoraus and prejocal ar flenil froeces down. But the note judar flenil froeces down. But the note judthe stan, and the sted accessions to the armi or reform eit grounds for much bosp.

I feel convined that the reshonalisting or Eoglish speling wood be or incalcynlabl benfit to 10dis, because it wood graville Issilitati the spred or Eoglish in this Issaed. The progress or Eoglish has been extreendil alone the posset. For this for wan moment.

Asterneed's acutyari or English edyacalabon, out or the 300 milions or peeple in this contri, not moer than I i milion ar litered to English! At that rait or proegree, it will take foll a thousand geers for bast the present popyolashon to be sib! to reed and riet English! And yet it in undersible that never sun-baied ladion feeld needed the fertiliering rains or the mussaon moer than we need a notely or the English teng.

. The English langwif has plaid and in destind yet to plai a moset important part in the rensisans or modern india. It is the moset ponerful form warring among or an the prezent dai for social and nashonal yamiti. It is the kne which not centifully be not continued to the property of the property of the property of the West. The aream or world cultyur floos to us mainliften the headen or that langwij. It stands, is a word, for proogress and salietement. Hos needful is it then that a nolej or English shood apred, and spred cwicht in our leand I Wau or the things that will moest sertent help to do that it the simplification or English apoling.

The tiem weisted in lerning the curent spaling is simpli spoling. It is noteering that Indian hois e-ren safter sit ta les gers or the studi or English in the Seconderi scouls are not sibl to aperk and rick English curectli.

This is larjli dyn in the fact that a graitli disproperationed amount ov their film in spent to massioring a calotic and irashood we speling. Shood we not sair them from this cruel tirasi or the leter which citch?

A rational speling wood entitle Indian atyudents to lern in you English currectly much assure; then that do at present, It wood graidly improor their promostishou ove English. It wood, passing, bi matching the, languij erzeer to lern, leed to the rapid agreed or English in this contri. I can conserve or our mose transil particulate were which as Indian cood do, than thu belping forward ov this grait mourment for the simplification or English speling.

S. E. Renoapaditan.

ENGLISH LITERATURE IN INDIA.

The introduction of Faglish literature juto India is among the most sticking consequences of her contact with the civilization of the West Its influence on the netional consciousness has been profound and it has generated the impulses for progress which have shaped the course of Indian history daring the last one century The people of the land have apened their eyes to political ideals, lofty in their spirit and shondant in their capecity for advancement, the structure of Indian constr has been apprected to the search light of a new reason fell of humanity, and the injuries of ages are heapy righted , the soperati tions beliefs of the past no longer command reverence from at lesst those who have any pretengings to collings, efforte for incressing the material prosperity of the country are being made in all directions, -there has been in short a general awakening, which can be compared in its intensity and comprehensiveness only to the great Renaissance of Europe

While these beneficent consequences of its introduction into this country have often met with adequate racognition, it has very rarely been considered as a literary movement in itself Though those sapects must be of the most absorbing interest to all that been the national walfars at heart, to a student of litera ture, the latter standpoint must make a profound appeal The consequences in the literary sphere, of India's gradual absorption of English liters ture, the achievements of at least appraciable ability within the country itself, by the Auglo Indian and the Indian, its neefulness for the Indian genine as a possible means of expression. -such are some of the entreets that ought to suggest themselves to one when some considers tion is bestowed on English literature so India

*A paper read recently at the Teachers Association Teachers College Saidapet by Mr I Seshadri MA of the Pachelyappan College.

When the energy that is being spent pron the study of Faglish literature by the children of this country is realised, it will be seen that the pursuit of a subject on such a large scale must cease to be simisee, and most proceed in the direction of a clearly marked out goal There is averywhere a wider and wider recognition of ats value and neefpiness for the people of this country The Universities have given a very large shere of attention to it in their scheme of studies and it only seems to increase year siter year to importance The sons of the intellectual armtoeracy of this land are fed no its priceless beauties and the future revenls for it only & wider field of activity. With his characteristic censos for adeptation the Indian has assimilated at an a wooderful manner life to able not only to explain the sheirnes verse of Browning and appreciate the subtlety of its philosophy but also to perceive the same depth and beauty in the intellectual systems of his own ancestors The writing of Ruskin have familiarised him. 16 is true, with the heanties of Alpins scenery. ravishing piecra of Swiss landscape and the great architecturel monaments of Italy But he hes at the same time realised the occasion for such writing in the beanty of the 'copreme Himalays in sunties,' in the Indies dewn brenking over the Ocient sea scattered with isles of palm. in the dream in marble at Agra, in the rock cut cares of Western India and in the excred abrines of the Spath Wordsworth's appleuse of the deffodil and the lift has menired his mind with a similar desp-essied worehip of the lotue and the chamnak. Shellev's Oils to the Skulark has been reed to little purpose of the 'little, little koil' sigging on the Sirish bough does not toapter a numifer train of golden faucise. The ballads of Scott have been made use of by the Indian, for dose not his heart throb listening to the tramp of Mahratta horse at Reigerh, or the dashing array of restive Rajput steeds before the gatee of Chitor!

The lodies mind has catorally not stopped with the newheir perception of literary merits to the mestarpieces of the English facquege; or even with the application of soch a process to things in the stmosphere of India in the may be orgered by soch a study. It has also occasionally strive to frome its conceptions of the baselfid in the language with a success which has been exciting the admiration of some of the most scropholoss of English critica. It is not marely that the Indias is successful as an English orate on the pletform; he has begon to show his capacity in the serious forms off literary activity.

11. Before discussing the principles involved in the goestico of the capacity of the Indians for achievlog eccose in English literatore, it is necessary to make a reference to the large part the language le bound to play in the foture history of India. If only the sobject is approached in a sober, academicel epirit without one being led away by lmpolace of petriotiem, one is hound to confess, that in time to come, ite loflococe will be more potent in the country than that of all Indien leogoagee. Though it is too serly to polot to it es the leaguage of the Indiso millions of the near fotore, those who conjuse up before their mind's vision a common lenguage for India, have to take note of it with as much certainty and confidence es other languages which are apoken. at heat by a few districts or parts of a Presidecay. The ettection the language has been receiving to the country; its importance, neve almost imperative necessity for India's takion any appreciable share in the progress of the modero world; the penaliar political circomstances which invest it with diguity and attraction for the Indien; its favoured position as the common medium of expression of the most edvenced Indian class even to-day-ell seem to boint to a coosummstion in which English will be the language of the land for all practical perposes. A student of history sees that it is the polypossible conclusion. Whether it is desirable or not, is a matter which the tide of events will not pause to consider.

And after all, there coght to he no occession for regrettion it in the interests of astional progress. In one of several kied letters I had the privilege of receiving from the emicant English writer, Mr. Fraderio Harrison, he writes: 'I am one of those who regret that io colleges in Indiao Universities: so mech effection is given to the stody of English literature and to acquire the nicoties of English prose style. It can be acquired-hut it is elien to the entire body of Indian thought end life in which the Indian scholar's whole existence is necessarily passed." There can he no denylog the lofticees of the spirit that has prompted the noble-hearted positivist philosopher to give espression to these sentiments. - But it must be seen that the political condition of Indle and the current of historical forces reader the present course not only inevitable, but elso eminently desirable. The enstendance for the spirit of modern progress must come from the literators of the West, with its ideals of scorgy and action and its . interest in social and political organizations and not from the literatore of the Iodian lenguages. with their legistages on the Immateriality of this world and their philosophy of spiritual recucciation. Even as a step of practical expediency it is difficult to see any better method of deciding their rival claims then the introduction of a new lengoage which can already be regarded as a common mediam of expression in the country. The stress of modern civiliestion will not allow the possibility of coltivating a bondred languages. each with its limited pres of adherents, within the same country. If it did, it would be the toleration of one of the most frightful instances of the wests of human energy, certainly inconsistent with the spirit of modern progress. There should be besitation for the sacrifice of aentiment in the interests of the conotry's progrese and it is good in remember it is for the adoption of a language which links Indian with the civilization of the most advanced perf of the modern world , which is full of life giving ideale for the progress of the individual, the society and the State, contributing to material happinese and growth, which asks for no arts ficial aide as it is impelled by the tide of histori cal and political forces, and which has to its credit an ever growing litereture, whose infinence tonchee to day the farthest confines of the world. It is a mistake to imagine that it will lead to any loss of national integrity or distinction The example of the United States of America where different nationalities have adopted the English language and yet form the polic of a single political organisation, quita dist act in its spirit, must serve to ramove the misconcaption. Far from its landing to any such decay or obsenration, it seems to be the only means of creating a national sensa in this country and leading her into the highwave of progress. As for its being an exotic element it non only be said that the Indian ganina will seen make it its own, and by anniving it to the Indies atmosphera will make it thoroughly local in colour and national in epirit

III.

Ignorance, prejudice and pessiminin have after raised the crualing voice, that it is not possible for the Indian to wield this alian medium of expression with any anceass. Where it is more expression of higotry and narrow prejedice it hardly deserves any respectful attention. Where a personal vestore in the analysis prompile anoth a belief it is a night for the exercise of pather. The voice of pessimism deserves only a several alience and an annued contemp! It is, however, worth while examining the honest arguments which are sometimes advanced. The critice fail to perceive that the adventage of English birth gives the literary aspirants a test only in dis-

lectic viridease bomely flow of conversation, and richosass of native homour. It is forgotten that these do not constitute the only writees of likerary and artistin excellence, nor do they occupy any appreciable importance in come of the most cherished branches of literary craftenane ship. Tha sleng of Sam Weller, the apsends of Tennyson's Northern Farmer, the homorous doggeral of Barbam, and the homely excellence of Mire Poyser's exquisite esyings are in in true, beyond the reach of the ludium, but is it not possible to evolve a transformed literature of his own even in these directions to entit the pseuliar curconstances of his contigit?

How do Engl sh hirth and anymoment invest a person with a finer capacity for lyrical postry, for herem versa and the loftier fields of proce? What are the specially English elements in Sheller's lines

"Life hke a doma of many colonred glass, Stains tha white red ance of eternity?"

or Keat'e *Thee felt I

*Thee felt I l ke some watcher of the skies, When a new planet awims into his ken * or Wordsworth's

*To me the meanest flower that blows can give Thoughts that do often he too deep for tears."

The difficulty of the Indian to imitating affectively the English accant which has been however rendered largely possible by recent Phonological aids is sometimes put forword But at an forgotten that Philology knows no correct proponciation, its standard below derived only from the most widely accepted form of speech The Yankee feels himself at liberty to introduce his awa eccentricities into the Eoghsh tongue The Scotchman has been persisting in his own varietings for the last several centuries. The pronouciation of English has been developany necolarates even in so recent a colony as Anstralia, and the inhabitents of a fer off island cannot effectively and for ever prevent the Indian mind from exercising one of the ecknowle edged privileges of people using an instrument

of expression. The introduction of national secentricities in pronunciation is egain the addition of so element of picture-squaress which is probably not without its owe velue.

The difficulties of equiting mattery over the language which is being gradeally absorbed by this vest continent have been exeggerated. Without extering into a discussion of all the questions rated by this problem it may be ventured that creative genios, when it has a real impelling force balloid is, will shope the a vestible literary madium in a manner existed to its conditions. This is but one of the most widely recognised trable of an eritatic work.

If an historical parallel were necessary, the example of the Speniards to the days of Romen occupation may be eited, though the parallal is net absolute. There was the eight of mes like Sepeca, Mela and Quiotilian, Spanierds by birth, distinguishing themselves as Latin dramatiets, critics and peets. Is it wrong to expect with reference to India that a similar phenomenon will display itself to the rapoblic of Eaglish lettern? There are, it is true, barriers of race, religion and civilization, but each circumstances here never bece known to stiffe creative genies effectively. The literators that is to come jeto existence, it is necessary to remember, is to interpret the lodine spirit and civilization and not to work in eq exotic setting.

There is so are of doying literary groles to a great nation which has enrished the world's literature with some of its most cherished moonments of art. There is abundance of material for exitatic treatment in India, is its apperbased beacties, in its marrallous history and legend, in its sublime raligion and philosophy, not to speak of its multifudions anciclogical problems essensing shapes and features unknown to all the peat ages of the world.

There is a circumstance peculiar to India which leads real adventage to the possible deseropments of Leglish literature in the country. Without any estempt at belittling the pursonal

poetic interest of Britain at least for her own children it may be ventored that their muse must soon seek meterial in parts of the British Empire which still have on sir of romance for them. The nexplored colouies, and India with its baffling mysteries for the foreigner, must serve as 'fresh woods and pastures new' for the Eeglish post of this century. Several sources of poetic inepiration for the Britisher beve dried up during the last four or five centuries. The world of Greek and Latin literatere will not bear further exploitation; the mice of Italiae literature heabese worked by specessive generation of posts from Cheocer and Speecer down to Rossetti and Swinhorne; France yielded up all her treasures ie the eighteenth century; a sufficiently severe strain has been imposed on Germany and the North and the Eeglishman can no looger turn in these directions for themes of peefic interest. If there may be some indelgence in the spirit of prophecy to each mattern it can be pointed out that some of the richest treasures of English literators in the twentieth centery are likely to be associated with the aspects of life and scenery in parts of Greater Britaio, and India as the representative of a civilisation much more ancient and mys. terious then that of the colonies will claim a large chare of such ettention. The pilgrimege of the coming Childe Harold will include India within its range; a later Browning will loog to epend bindays in the beentiful velley of Cashmere or on the enow-clad heights of the Himslayas; there will be posme by Englishmen idealising the experiences of a journey in India on the model of Wordsworth's Memorials of a Tour in Scotland or Figure: it may even be that the love-romance of the Shelley of the next generation will be with the dark-eyed girl of an Indian sensus, expressing itself is a new Epipsychidion. Almost all aspects of the country are likely to appear transfermed in a balo of poetic glory at the hends of English poets.

w

Nothing but atrong eccouragement is afforded by a consideration of what has already been done by Auglo-Indian and Indian in this work of the poetic treatment of lodia. Even bafers the begin uing of the nineteenth century Sir William Janes had upplied his vigorous penius to the assimiletion of the literature, philosophy and rel gione of India and encreeded most remarkable in treating about them in his mostry. A few years later, a Scotchman, bronght up amidst thu rumantio scenery of the Teviot, John Lordan. a friend of Sic Walter Scott's and a contributor to Scotch Ministrelay, found his way into Southern Indie and song of Indian subjects in lines of real poetic beauty. A pinus missionery working in this land, Bishou Haber, myoked his muse to turn to things eround him an India, on at least two important occasions. Sir Edwin Arnold wrote of Buddha and the philosophy of the Unanisheds, with the instructive asmosthy of a person cradled from abildhood to the beart of the Indian nation Lawrence Hone sano of Indian Lora and the Garden of Kama with & burning lyric intensity of soul Numerona aspects of life to Iodie pass before Rudward Kipling in kaleidoscopic view and avan the pressue scence of Anglo-Indian life fernish him with material for poetry.

Hew much mere say should it bu for the Lodism, in cases in which he is grited with real creative genias, is imbined with Western colliums and has acquired a mestary over the English language, to interpret his country and civil sation in the gath of the Faglish ones that active meats in the past of Todison themselves fiff one with attong thopes for the factorial trianguage and the tender of the factorial trianguage and the first productions as Edmond Gover that he declared that English hierature must derate a page to that activity in English restricts must destroy a product of that activity in English first product of the Indian poeters. Tora Dati, anthoress of the Activit Ballads and Legisted Histardiscs There have been competed.

other anstances, Michael Madhundan Datt et Bengal with his Byronio mass, tho lat Mr R O Datt who applied binsself with encess to the vary difficult task of tronslation to verse; and te day, Foreissen Obose of Celents who cells bengal with a state of the state of th

The poetin interpretation of India, its life and civilisation could be most effectively discharged only by the ledien as he to the son of the land-be lives, moves, and has his being in ber-mulike the fore oner for whom she is only s temporary bome, The Auglo Indian poet praises the scenery and life of the land with material veservations. He elways longs for the eurroandings of his own foreign hame, in obedience to a vary laudable instinct of natriotism The feeling of an exile comes unom him even when he is preising a heaptiful lendscope of this country The cosseless speech of the little. little koil, singing on ton Sirish bonch is to Bodyard Kipling only the tollier of the Kuell of Exile and be could only exclaim

I am sick of endiese annehine, sick of blossom bur deced bough, G vome back the leafless woodlends, where the winds of sping time range G we me back one day in England for 'its sping in England now.

He could only put this question to the ladian

Can you tell me night of England or, of spring in England sow

Yaars of stey in this country and lofty aarnos in the canne of her people did not, naturally, effect the steation for Bulbop Heber Describing An Eccusy Walk to Bengol on the Garger, he as forced to confess that English fastice neutrod so righ a ghade, and green a sod. But he is

not abla to appress the longing for England's 'good greenwood' for her 'bawthorn glades' and a mere sight of her oaks again.

The work therefore devolves upon the Indian, and from what hee been said already, it will be sees that the situation is hopeful. Lord Curzon, not a great admirer of Indian virtues of head or heart, in a speech before the Society of Anthors in England, ventured to prophesy that in course of time a society of English authors of Indusp hirth may meet at the capital of British India. If there is the possibility of literary prognostication with any success, it may be said that there will enting up a class of Indo-English literary men in the future who will do for the estistic interpretation of India what Longfellow, Lowell, and Welt Whitman have done for America. As in the days of the Roman Empire, e class of poets from the abject race shall rise to shere the literary glories of the rolers. One is disposed to linger fondly on the vision of such a future, to see a race of indisa literary men glorifying their motherland in the English tongue-to see e Tennyson einging the deeds of Ring Vikram ; a Browning elucidating the philosophy of a cross-legged Brahmin accetic nn the Ganges, or a Bhlkshu in Buddha-Gaya; a Reats clasping with rapturous enthusiasm the angels of the Hindu pantheon; a Dickens dellneating the scenes of Madras in a new series of Sketches by Boz ; e Scott nerreting the thrilling romance of the land of Rajasthan; we may go further-a Milton treating in spic poetry a lofty theme from Hinda mythology, and if it please God, en Indian Shakespeare writing on the Merchant of Surat in the clutches of a Gorarati Shylock, depicting idellic life in an Indian forest of Arden, or moving us to tears with the tragedy of a Hindu Othello or Hawlet. The Indian has entered upon the field of English literature with the right of an adopted brother, with "Shakespeare's children and Milton's kindred.' A beginning has been made, which by a long series of stens will result on the day when the sons of

India will glorily, in English poetry,

Whose six is bain; whose occas ayreads
Over-coral rocks and Amber beds;
Whose mountains preparat by the beam
Of the warm sow with dismonds teem
Whose rivulets are like sich brides;
Lovely with gold beneath tells tides;
Whose steeds! groves and howers of spice
Whose steeds! groves and bowers of spice

V. ON THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS.*

(Continued from page 410, Vol. XVIII.)

In this critice, I shell deal with (i) some mportant algebraic processes applied to num-

important algebraic processes applied to numbers; (ii) the decimalization of money, English and Indian.

From the examples worked out below it is

From the examples worked out below it is not meant that algebraic formules can always be applied with advantage in extinuct, and calculations, nor is a student advised to stop in his calculations and think how he can make one of a particular algebraic formula. This will be just like a student keeping a set of phrases and idiome to be used in his composition.

i. a²−b³ ≡(a+b)(a−b). Evaluate 37 75¹−322 5¹· 37 75²−32·25² ≡70×5·5=385. Multiply 11·75 by 9·25. 11·75×9·25 ≡ (10·5+1·25) (10·5−1·25)

= 10 8°-1-25° = 25(2·1°-25°) = 25(4·41-0625)

= 25×3 3475 = 83 5975

ii. a³+b²≡i [(a+b)²+(a−b)²] . Evaluata 21:525²+9:375². 11:625²+9:375² = {(21°+2:25²)

= {(441+2·5×2+·0625) = {×446 0625

= 223 03125.

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```
int ab=+ ((a+b)2-(a-b)2)
                                                  Equinate
                                                  $760° + 3750° + $740° -- 3 x $760 x $750 x $740.
Multiply 11 525 by 9 375.
                                                  3,60" + 375(4 + 3740" -- 3 x 3760 x 5750 x 3740
 11 625 x 9 375 = 4 1 21*-2 25* 8
                                                  = 10*[376*+375*+374*-3×276 x $75 x 3741
              = 1 1 441 -5 - 0625 I
                                                     103 ×1125(1*+1*+2*)
              - i×435 9375
              - 108 98137K
                                                  = 10° x 1125 x 3
Evaluate 11 753 + 9 253
                                                  — 9375000
11 75* + 9 25$ - (10 5+1 25.*+(10 5-1 25)*
                                                  VII. (a+b+c)4-(b+c-a)4-(e+a-b)4-(a+b-c)4
              - 2(10 52-1-252)
                                                                  = 24 nFc
              = 50(2 12 + 252)
                                                   Evaluate 525 x 3 5 x 1 75.
              - 50 x 414725
              - 923 625
                                                  5 25 x 3 5 x 1 75
iv a1-b1=(a-b)(a1+ab+b2) or
                                                  = - 1 10 5°-0-3 5°-78 1
           (a-b)+3ab a-b) or
                                                  = 1,127 ×31 -35 -8 × 35 1
           (a-5)/a+63-a61
                                                  = 4 x 3 5*
Eveluate 25:253-14 753
                                                  = 4 f27 125 +4 5×3 57
25 25*-14'75*=10 5*+3×25 25×14 75×10 5
                                                  = 4 x 42 575
                                                  = 128 625
= 1000 125+157 5+3×10 5 (400 -- 5×51*-0625)
         F#8 258-58+2×5× 25+ 258
                =5×554-25*)
                                                  32 15625
= 1157 625+8×10-5 (400-27 5625)
                                                  vm Now W2 - X2 - Y2 - Z2 = 24abs where
= 1157 525+3×10 5×372 4375
                                                               0+0+c= W
= 1157 525-L
                                                             -a+b+a=X
 11173 1254
                                                               a - b + c = Y
   859 83628
                                                           and a + b - c = Z
= 12889 40825
                                                  Evaluate 15° - 25° - 55° - 10°
                                                    180 - 2 50 - 5 50 - 100 = 24abc where
25-234-14-751
                                                                              a+b+e=18
= 10 5 (402-20+5 25 × 20-5 25)
                                                                              -a+3+c=25
= 10 5 (1600-100+5×55+0625)
                                                      - 91 × 2 75 × 6 25 × 4
                                                                                      a - 775
= 10 5 x 1227 5625.
                                                              ## 6 x 81 x 25
                                                                              a-b+==55
E 12275 625 1
                                                              =4650
                                                                                      b = 9 25
    613 78125
                                                                               a + b - c = 10
                                                                                       . . 4
= 12889 40625.
v a3+b2=(a+b1(a2-a5+b2) or
                                                 ve Resolve at - 1 toto fectors and bence deduce
         =(a+b)=-3ab(a+b)
                                               the prime factors of 999 999
Evaluate 15 620 + 4 3758
                                                 a^3-1=(a^3-1)(a^4+a^2+1)
15 625* + 4 3753
                                                      =(a-1)(a+1)(a^2+a+1)(a^2-a+1)
= 209-60 (10+5625)/10-5625)
                                                    put p=10
= 8000-6000+6015×625+625*
                                                 then 999999 = 9×11×111×91
= 2000 + 1875 + 60 \times 36
                                                              = 8" × 11 × 3 × 37 × 7 × 13
                    20
                                                              = S*x7x11x13x37
                                                 A number can be looked upon as a function of 10
                      25
                                               and putting a for 10 we get a function of a to renre.
= 3875+6×390625
= 3875
```

A number can be looked upon as a function of 10 and patting when 10 we get a function of a to represent a number, the digits forming the animber being the coefficients of different powers of κ . Thus $a^4 + 4x^2 + 5x^3 + 6x + 9$ stands for the number 165 7, $3x^4 + 5x^3 + 7$ stands for 3507.

Evaluate 11112.

23 4375

v: a*+b*+c*-3a*c=1(a+b+c) 1(a-b)*

+15-0)*+15-4 * [

= 8899 4975

XIX

3

```
Now (1+e+e^1+a^2)^2 = \{(1+a)(1+e^2)\}^2
== (1+3a+3a^2+a^2) \times
(1+2a^2+3a^4+a^4)
```

1+3+5+ I 2+0+3+ 0+ 3+ 0+ 1 1+5+6+ 1 3+ 9+ 9+ 3 3+ 9+ 9+3

1+3+6+10+12+12+10+6+3+1

Remembering that a = 10 we arrange the coefficients thus: 1+3+6+0+3+3+1+7+3+1

and the corresponding number is 1371330631.

The application of the Remainder Theorem

in this connection is instructive. Now if an integral function of a is divided by w-1, the remainder is found by putting w=1 in the function, i.e., the remainder m the sum of the co-efficients, i.e., the enm of the digits in a number: by our sesumption z-1=9. So this gives that when a number is divided by 9 the remainder is the sum of the digits and if the sum of the digits be a multiple of 9 the number is divisible by 9. Again if an integral function of z is divided by x + 1 the remainder is found by putting - I for a and the result in the sum of the odd co-efficients - the sum of the even coefficients. So when a number is divided by 11 the remainder is the difference between the sum of the odd digits and the sum of the even digits and if this difference he zero or a multiple of 11 the number is divisible by 11. The Remainder Theorem gives that $3x_1 - 5x_1 + 10x_2 - 11x_1 + 2x_2 + 1$ is divisible by x-1 and we infer that 310021-5110, i.e., 204911 is divisible by 9, which is utherwise abvious and hence verifies the Remainder Theorem.

An algebraic expression $5x^4 + 3x^2 + 6x^4 + 8x^4 + 6x^4 + x^4 + 4x^6 + 6x^6 + 6x^6$

+11+8. Now from this it is clear that when a number is divided by 90 the remainder is the sam of the numbers formed by taking the digits 2 by 2 from the units digit and when this sam is greater than 90, 90 or a multiple of 99 should be subtracted from the sum and the remainder obtained; and this suggests on casy method of obtaining the quotient and the remainder when a number is divided by 99.

Let us take the number represented by the algebraic expression in the previous paragraph and divide it by 99.

\$36-901[04 \$3689[01 \$36,39 \$0 6 \$423132.55

From the rule we get 135 for the remeinder and 100 carried forward will give I to be added to the quotient and I added to the remeinder.

The co-efficient is 5423132 and the re-

The same algebraic expression can be arranged as e'(2a' + 2a + 6) + a' da' + 2a) + a * 1 ad this suggests a similar method to obtain the quotient and the remainder whou a number is divided by 999. Taking the same number we have:

Quotient: 537427. Remainder: 531.

DECIMALIZATION OF MONEY.

Befure beginning decimalization the student should be made to grasp well the elementary ideas about decimals. In a decimal fraction that a unit in the 3rd place is 10 times a unit in the 4th place and so on; this applies to fractions also, eg, when a fraction belonging to the 3rd place is multiplied by 10, the integral portion hology to the 4th place—for example 037 $l_1^2 = 0370l_2^2 = 0370l_1^2$ and so our The stodent should also be very familiar with the decimal equivalents of at least l and its odd multiples. With this notation l and odd l are intelligible and the student must at

once understand them to be 05 and 04875.
Now a shiling is 'j of a £ and 5s', 3s' 6d'.
11s 9d are respectively 2j £, 'i ž £, 5j £ and
are equal to £25, £175 and £5875 respectively. Now the student can decomable
shilings and penca to within 2d.

$$1q=\pounds\,\frac{1}{900}=\pounds\,\frac{025}{24}=\pounds\,001_{44}$$
 and $eq=\pounds\,00a\,\frac{a}{24}$

Now $2\frac{1}{4} = £010\frac{1}{2} = £010116$ $2\frac{1}{4} = £011\frac{11\frac{1}{2}}{0.4} = £0115$

47

= £01197 Decumalize £35, 17, 10√4d

> 5555 23 £35 893.8

The student should always reduce such fractions $\frac{5}{2^{\frac{1}{4}}}$ mentally. The process of reduction should be $\frac{1}{4^{\frac{1}{4}}}$, $\frac{1}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, $\frac{2}{4^{\frac{1}{4}}}$, and so on.

(To be continued)

S CHINNASARI AIYAR

SCHOOL-MANAGEMENT AND HEADMASTER'S WORK.

T.

MATTERS of method and technical details of achool-work ought to receive their special attention at the hands of professional But, those facts and principles necessary for guidiog the policy of a school or even an educational institution of a saperior order ought to be the common property. of the educated public When the Ripon-Hunter Commission collected evidence, it was tha late Justice Telang who emphasised the view that intelligent men of general sducation conversant with broad principles could very well take part in University discressions and need not necessarily consist of professional The need for this areas from axperte alone the manner in which the idea of education being directed by lay-man was altogether ridiculad. In this contention, the late K T. Talang was certainly in the right. Men in tha field of education and outside elements should rom so that there could he scope for variety and different types of culture

In University education, the lamentable feature is going from one extrema to another. Refore the recent changes now worked out, too lorge a number of lay-men took part in the Scosto and the Syndicate The present tendency is to have too large a number of men engaged in the profession of teaching. The forces at work to the higher department of education naturally permeate the lower atrata. A disproportionately large number of people has begun to say that, even in the management of achools, the wast majority should consist of teachers. Amongst teachers are met with men who may be thorough in details of instriction and those not wanting

who have really educational ideas. But, the letter class is not necessarily restricted to the masters Amongst outsiders are found men not only of superior ettsinments in subjects of study but also of broad educational ideas The services of these ought to be util sed fur the good of schools. The greatest pity is that they have not got the lessure for doing as good work as they can, especially as the majority of them belonging to the legal profeesion are too busily occupied in their own professional work and in too many kinds of activity to make themselves felt Parely professional people may easily note that, m the public life of Great Britain and America. the legal element preponderates. The credit that Britain claims is that the proportion is less in it than in America and that a larger number of outsiders is found to take part It seems to be a curse of the teaching profession even in Lurope that its members are not able to combine effectively for organ ised afforts in improving these own material condition In all worldly matters power naturally goes

iotothebands of men who control the puras and take part in legislation Inschool matters also beadmesters and assistants abould show that they can give or get the necessary amounts needed for improving the efficiency of schools. while teeching up to a bigb standard. The requires a great deal of self secretice as te the case of the founders of the Fergusson College, Poons, emongst whum the illus trions names of Messrs Agarkar, Tilak and Gokhale are too well known to need more than a bare mention. They will have then all the power in their hands Till then, they may envy in vain the authority of ontaiders in the management But, these bave also equally to consider whether, not setsilled with merely finencial aspects of education, it is possible for them to take ou intelligent, active interest in the educative portions of active interest in the educative portions of active interest in the educative portions of active interest merely enried. It is not our binances now to inquire into the relationship between two classes of men, but to each ow clucational interests softer to the detriment of progress of the large number of echool going youthe in the lead. Headmasters and going youthe in the lead. Headmasters and satisfacts must, therefore, show a greater knuwledge of the world by coming into contact with his incision and winning them over to contribute large smit.

Managere ought to be daily conversant with the educative aspects of school work. These can have their usaful chare thereof by co-operating with the headmaster. He is the responsible person through whom they can and have to exercise their infinence on school work Now that the headmaster is made the appervisory authority without full class work, it is for them to see how it is exercised. The headmaster quest not to be in charge of any subject fully for one class The subjects taught during those periods especally in the lower forms and primary school classes, suffer for want of occasional effective enpervision. He ought to bear the hon's share of work in taking, only for a short time, each form or class to the most difficult subject or important portion of any applied known to him He is intended to be the teacher of model lessons capable of improving the atsistants. The management may co operate with the headmaster in a way, by going with him round the classes from time to time and seeing what kind of suprovement be effects on the assistant's work If this is done, the headmaster more profitably uses the ample leisure left to him. His attention and time are better utilised in model teaching than in office work with its own importance. Then, his supervisory work is bound to meet with greater success. The headmaster ought to he able to calmly think for himself and decide what writing work is necessary and what he can conveniently manage by friendly contact with the teacher. The manager may, if necessary, advan him to avoid long or unpleasant reports aubmitted to him in writing as business people find it easier and more useful to have about reports on the needs of the echool and to gain a better name for considerate manage mont by gentlences and sympathy.

Every tatell gent manager ought to oce a school-calendar placed by the headmater in the beads of arrey teacher and school boy, so as to show the text books and portions, dates of examinations and payments of fees, the holidays of the year, Fachsayappa's College, for example, issues one for the High School department also It is found very convenient by pupils and masters

The manager may accortate whether the headmaster holds teachers' meetings to make them profitable in work to imitation of the Japanese Parliament which conducts horizon without much talk. The manager may learn and directly nee what it done with regard to games, as they help the formation of independence on all the discovery of the profit of the profi

The problem of problems is to see what steps are taken to bring into force in actual life the methode of secaring the intimate contact of the teacher with the parent, that of the teacher with the pupil being too well known in theory to need meation

A committee of management ought to have a due share of the educational element represented in it. With it, the management is

bannd to make its achievements more glorious But, the representatives of the teaching profeeston must be such as carefully work to give the benefit of their experience Supposing it to be seenally found, the tack of co operating with the headmaster is comparatively easy. only if it is intended to be done in right carnest. Supposing it is not found, an intelligent member on the hoard of management oncht to he able to go with the headmaster round the classes to test educative methods The manager may enter into a conversation with boys and sen what they have got to say in matters of general interest and what intelligeoce they show to briefly answering questions requiring not mere cram bat sound, common cense. The headmaster will then he shie to convince his apperior that he is the important factor in educational matters, the sole power for the diffamon of instraction on a large acale or even of koowledge oo a small educative scale This mathod is oseful in proving appervision to be necessary. The ordinary public enuception at present is that the hand master ought to have far more of teaching work than he has undertaken to do People ontaide the profession and even in it can be esti-fied if they see that far more is gained by efficient appervision than by teaching This requires culture which it is difficult to attnin hat, on renson can be assigned to the want of active work and interest with the attempt at culture that can be made out of the material available at present

Some useful work of the management consists in passing proceedings fit to guide intelligent lay-men of education ought to take heart and feel that, if they only will, they can have their useful abare in improving the tone of school work

If the Universities' Commission had the

College content the Secondary School Learing Certificate schems has for its object the proper supervision by the bandmaster and the elevation of the teacher to a higher status. The headmaster and the manage ment may co operate to achieve it.

For more than a quarter of a century, the greatest living educationist of Southern India. the Rev Dr Müler, set an example of teaching in the High School department of his well known premier college and of supervising work It is not everywhere that it can be done, but, the principle exemplified ought to be horne in mind though we may not have professional man of that eminence masters and managers producing results in public examinations by cramming and mechamoal methods may not see much of use in it. but, to the parents and the public suterested in culture, it is educative work that is worthy of smitation The headmaster is expected to teach in an examplary way and to be able to give constructive auggestions reming the standard of an assistant's work.

If we have vectored to eap all this, it is be cause we ongle to make it anderstood by the general public that a vast field of work hes open to the learned mac even cotaide the pale of the teaching profession. In this case only does a supervisory headmaster prove that he sattsfess inclingent, public opinion

If we have not entered into concrete details of management, it is because they are largely determined by local conditions and details within the casy reach and knowledge of any learned man in earnest about his work. Any such particulars are more properly topics for treatment in datal. We shall, if necessary, ntiles, laisr on, the pages of The Educational Researce, our only organ for purely educational matters in the Presidency.

It is not hereby meant that the Secondary School staff especially of the upper forms need be subjected to interference of a threefold character from the headmaster, the management and inspectorate The teachers of the fourth, fifth and sixth forms are almost generally no inferiors to the headmaster and the only safe course for the head is to ascertain the methods that his assistants mean to follow and to ecente their co operation. Equally the sound policy of the management is not to interfere needlessly with the headmuster and his ataff The London Times, the enlightened organ of British public opinion, made the characteristic remark a few months back that nothing ought to he done which makes pupils feel that the anthority of the teacher te checked Equally true at as that the outhority of the headmaster ought not to he lowered before his essistants, so long as he es kapt to do responsible work

Both the management and the headmaster should co operate with the inspectorate and be definite about the policy of the achnol and ite methods. The very object of the Becondary School Lanving Certificata scheme is to allow scope for variety and differences in taste of various assistants. They have received training at the Teachers' College and ara conversant with the latest and hest methods of handling subjects. The headmaster and the management should agree to belp them to follow their own methods so long as they are intelligent and well-informed. They should further see that changes in the prepecting ataff do not pravent ateadiness in and continuity of school-work for some definste peried The view should always be to secure variety with tolerant supervision

C R. BRINIYASA RANGACHARY.

UNIVERSITY OF MADRAS

COTYCCATION ADDRESS *

At the Convocation of the University of Madras held on 21st November 1812, the following address was delivered by the Rev Alian F. Gardioer, MA, S P O, Principal and Wardan of S P G College, Trichinopoly and Fellow of the the University

MR. CHANCELEOR LADIES AND GENTLEMEN

As I rise to address this Cooponation in cum pliance with the request of the late Chancellor and in accordance with the regulations of the University, my thoughts revert in the last occurs on one whole this time become dustum was characted.

There stood before on then one whom we shall bear no more though being dead by vet speakath. His interesting enrysy of University aducation, post and present, his keen appropriation of the reforme but recently introduced into the University eystem of this Empire, and his sameitiva consciousness of existing limitations are all still freeh in one memory, while his words of congratulation and connect in the graduates of the year will never by forgotten by thosa who heard them The Hou'ble Mr V. Keishneswams Alyer was a man whom the King delighted to hunour a graduate, a Fellow, and a byndic, of whum this University was justly proud Unprring jusight and unfailing sympathy nharacterized every action of his life, and his public career was distinguished throughout by a rare single mindedness of purpose inspired by a large-hearted patriotism

It is a difficult and responsible task for me to follow in the stops of so clears a thinker and as brilliont as orator, and to succeed all the other apeakers of wide experience and impressive aloquance who have addressed this Convocation year by year. But I have the secret ancoungement of knowing that my unthessess for the cause of higher adocation in India at least is as

boundless es theirs, and my affection for this land and Empire as deep as that of any of my predecrasors to this bonograble office

In the sphere of University education in the country one octisuding findings acreate the attention of unery inderested observer. It is the transition of the University from the formal position of a purely azimining hody to the dignity of an institution which not only tests but teaches, and devoks benealf to transing not only the intellect but also the character of her sons and daughters.

Sech a cappose bility was recognized ead oncepted by the University of Madres at an early period of her existence, and recent administrative measures have served only in Sanistanable are tha headits which accross from such reform that now echances for the promotion of Universities in India can only hope to gain scooptance in far as than principales are introlly observed.

The development has been marked in the first place by the gradual transformation of a number of locally additised institutions to a compose group of nonstituent Colleges were which the University has assumed a position of reeponahity and control by dictating measures for their more collective organization and conduct, and by instituting a system of periodical issucction.

As the Hand of not the less distinguished of those Houses I may be permitted to express the gratitude field by all towards the great statemen who inaugurated that policy and towards those upon whom the duty of giving effect to it has davolved.

In pursuence of the policy indicated in the Indian Universities Act of 1904 the bortel system has been brought note promisence and an approximation has been made to the residential agetim of the older Universities of the West The advantages of wider social intercourse and of a more vivid realization of corporate life smoot students have for excitates past found expression allowhere to hospices and balls. Six bandeed and fifty years age the need of such

[.] Reproduced from the University edition of the

boatels for University students was realized and supplied at Oxford by Walter of Meston, who laid down regolations for their discipline unders, wasten, ash wardens, and minitors. Proper pro vision was also soon made for baship; recreation as lusar piles is horte cause exercent corporis et sanitats. That unble example of private hers ficence if followed to this Presidency and in the 3d yning States would cooler as great honour upon the hensrolant fuunders as on the favoored Colleges.

It is to the development and extension of this hostel system on a soond basis that a solution will be found for oos of the gravest and most pressing problems of midera education

While the University as a hody thus ascumed a still largar measure of responsibility for the education imparted in har efficied Colleges and thereby constituted hereoff recaronally a teaching institution the agencies influence of the Majary the Ring-Emperor and the generatty of the Impersit Constitution that a opened out naw paths of outerprise.

In Europe to the Middle Ages teaching Universities and hostels preceded the formation of such teseling Colleges as were lounded after the model created at Oxford by William of Wykeham in the fourteenth contory, and the local guild of professors in the studium bad long preceded the prespiration of the anterests In modern Universities the function of preparing candidates for University degrees has devolved upon Univarnity Colleges, and the University to her individual conscity has essumed a peculiar function distinct from that of a University College. le the latter the acquisition of knowledge, however highly specialized it may be, is but one factor in the more liberal edocation of its scholars, while the University considered apart from har Colleges cares less for the wider culture อรู่ รักษ เมื่อโทยใหม่เกิด โดยสามารถ เป็น สำคัญ เกิดเกิดเลือน เป็น research and the assured results of his investigation To fu fil this special duty the University aims at guiding the stadies of advanced stadents by the co operation rather than by the improve

tion of her own professors and by providing facilities for such research.

In the West, and sleawhere is India, generous andowmath by religious and other institutious or the laberal support of public-spirited individuals has ecabled. Universities to disclaring this distinctive footshoot, but hitherton in this Presidency we have been precluded from doing so by a lack of general telescent and in dedposts fined? The impensity of the impensity of the properties for arceling monuments of research, and the University in arading hereoff gladly of the opportunity has proposed to appropriate the great for the boilding and equipment of a liberary and for the satisfiance and of a liberary and for the satisfiance and the University professorships

Such a recognition of the special sim of the University, to recoposition with the better fall-mant of her wider purpose through University Colleger, violentes the fraditional learn of Universities to he prehape the most important fectors in calcular progress, and cannot but souch as laboral response from every section of the commonity.

In herenny with His Imperial Majesty's express desira to ennecrya the anciant fearning of this lood, the plaims of the leogueges and literalizes of South India, native and naturalised, have received the foremost consideration by the University of Madras This les field of fongire which affords unique apportunities for loo-1 vassarch and holds out promise of a degree Col soccese which it would be difficult to attain eld where The claume of other departments o'; research to closer touch with the professional and industried I fe of the community have been temporarily waived to deference to the prior claims of pure learning, but will assoredly be concered worthiry as time and circomstance permit,

The preference thos given to Oriental Laugesgas is an inevitable corollary of Lord Marselsy's Ismans Minute of 1833, in which it was decided over and for all that the Foglish imprage should be the medium for higher educe. tion in India The only languages seriously considered epocable alteratives at that time were Sankiri end Arabio, the classical languages fluoriating in the land. The latter wer rejected because it was ee foreign as English and less effective, while the claims of the former were disputed on the ground that it had been deaf for two thousand years, doring which a large portion of its literature had been written literature great indeed in metter, form, and episit, but deficient in certain departments and not greater in any than the literature of England.

But although the local demand for learned research in the department of Oriental Languages is great (as the recent proposals of the University testify), yet the need for the popularization of neeffit knowledge through the vermenters is oven greater.

Though there never was (nor bee bees) enjointention on the part of the British Government that English should be generally substituted for the versaculers—even if each a policy were remotely proticable—yet the compatition of the versaculers could herdly be taken into eccesed a deciding upon the means of higher education. Bot their claim on the fortiler effection of Indien Universities has elways here great and connot be sgrowed with impurity.

Lauguage is the sole channel through which we communicate our knowledge and discoveries to others, and through which the knowledge and discoveries of others are communicated to as *

If the principles of Western civilization and the discoverne of Western thought and sclenoe (which are of newers), not merely local, raild ity) are to permente this lead, it will not be through Eoglab or Sanakir or Arabic. The schistiment of the variancelars as an indepreciable element in national callighteement, for while on the one hand the function of Eoglab is to note in one enlightened body those who perticipate directly to the learning of the West, on the other hand the national assumitation of that more accurate information and wider culture can

The faremation of European culture and education erarts so alrong an influence—due partly to worthy, partly to newerthy motives—that there is a clear distinctionton on the part of University attents to select optimal concress of study in their own lenguages, though it would be difficult to determine how far the education of an Indian could be considered in any sense complete without an adequate sequenciates which one or other of the languages and literatures which have sprang up in his active land or have become sectionstized to it.

To the influence of those literatures is largely doe all that u good and heartful in Indiana life and the preservation of such influence and of its sources about accompany the influence that clearang and impring elements of Western culture. Otherwise there would appear to be a real danger that by their education the sons and damphers of India my forfait the most precous portion of their glorous bentiage.

The history of University education in India during the past half century is a record of rapid advancement along avery line of national thought, and the Universities may claim to be the most frostful supres of suspiration for intellectual. social, and ethical progress, but at present it cannot be denied that the English educated class have to a large extent failed to edinet their enlightenment to the needs of their fellowconntramen. As an evidence of anch failure there se a striking absance of individual effort. of originality, of stimulating thought and imagi nation on the one hand, and on the other emong those ppt so educated a widespread auspicion and distract of all rational reforms based upon the knowledge that is imparted by English ednestion

Graduates of the year, it is my duty to-day to sehort you to conduct yourselves anitably nuto

be effected only by calling in the end of the vermonlers. At present there appears to be danger that the English language which is a bond of noise emong the favoured few may become a harder of separation between them and their less fortunats fellow-countrymen.

^{*} George Campbell, Philosophy of Rhiteric

the position to which by the degrees conferred popon you you have stituined. I rought talts wo on having for the most part attained a standard of predictiony in the vernacular languages of South India, for the difficult on a knowledge through those verocachies is one of the forement delites of graduales. There is an imperative need of translating and aroammodating that knowledge to meet the needs of the masses, and unless this task of interpretation is undertaken the moment of inspiration may be irretrievably lost.

There is much in the old vernacolar literatures that exerts a reactionary influence and withholds the benefits of the new jearning and culture from the country at large. The time is rine for the renanceace of those vernaculars as living forces with a renewed vigoor and a wider range. While the arstem of education through the verpacolara la already considerable and is incresslog with the rapid extension of alamentary education, the present supply of sound modern literatura and of instructive lectures in the vermeenlers is scanty and soon exhausted. And yet the vernacolar assms destined to remsio the spoken sod written language of the larger part of the educated community. The literates in English in this Presidency do not unsuber one in svery 450 of the population, and for every literate in English there are aleven literates in the vernaculara. The vital importance of female education and the almost invalentable definence of the women of India in Indian tile have frequently been amphasized, but only 4,000 Hinda and Muhammadan womer, and 2,000 Christian Indian, out of a total population of over forly-one millions, can read and write in English. The very imperfect knowledge of most of these literates in English further discounts their number, already insignificant in itself. There is yet another influential section of the

There is yet another influential section of the community to be considered in the application of such a test, for

the test, for the wealthy as yet hardly approclate the water of a

. Census of India, 1911, vol. xii, part 1.

University education*

to their children.

Every graduate of the University becomes directly no Indirectly, deliberately or involuntarily, a leacher of the people, and the extension and improvement of English education will every only to alienate the indirect of the mailes and to acceptants their prejudices buless it appeals to their bearts and minds in a form that can be restilly understood and apprecised.

The vernaculars are in a mallcable and plastic state, capable of receiving the impress of new ideas, and the national damand for their modification and enrichment is insistent.

If I seem to have digressed from the express
subject of the Courontion Address it is on
account of my firm confiction of the paramount
importance of the position which the veranculars
should hold in the acheme of higher education
for the average stodent.

It is my very pleasant task to congratolate you, cradestee of the year, on the distinctions which you have won. If my words of hearty congretiation and kindly admostition should estrike some of you as trite and commoplace, I ask you to believe that they are zoom the less circens, and I turit poy [arther to accept their very femiliarity as a proof of the onalterable effection end nuchearing interest which the University ever takes in the highest waffar, of her children.

To you, fadies and gentlemen who have graduated body, this is a memorable occasion, for graduation in any department of learning comes but once in a student's lifetime. It is an impressive certamory, an impressive moment in your hves, and in your case at least the solemnity of your presche experience will, I restore to tiest, invest my faltering words with a popular freshness.

I stand before you at this moment when you are finshed with triumph, not to stimulate the pride of knowledge but to instil the hamility of wisdom. The education which you have received, the courses which you have completed, at

the cost of great self denial on your own part and perhaps of still greater self denial on the pert of your purents and relations, ere in day crowned with e encose which is hard earned and well-deserted.

This ecademic year merks the passing of the old courses of study, the edyent of the new Bot se the lest representatives of the old order you heve nothing to regret Turn your eyes on thu long roll of men of phility and distinction, living or dead, whose path to honour and fame was the came se that now trodden by you. If the coming age require men trained nuder a more highly specialized system, yet in this age of trensition, ee mdeed in every age, men and women of widn coltore, broad sympathies, and noble character. will ever find a field for the exercise of ell their talents. With such examples behind you and around you, and with each a hope before you I can, and do, most cordislly congratulate you on the position which you hold.

You stand at a pertion of the weye of life to choose a escer for which your education hither to bee been a training Your courses of studies now honography concluded here afforded you an edmireble preparation for life es e whole, and in most cases have developed aptitodes which will he of invaloable aervice to you in your special evocations And let me essure you that it is a matter of gretification to the University that the distinctions now conferred upon you should improve your meterial prospects in life, for the foremost duty of overy citizen is in earn an honest living in nn honograble occupation. And though it is not an uncommon experience to bear the mercenary espect of adacetion decried, there is nothing in each criticism that need necessarily caosn you even a momentary fealing of chame But your education will have failed in its pur pose if you regard this degree so its completion, or even as its highest reward. For the krnw ledge which you acquire is elweys of greater valoe than any distinction or reward which it may achieve and your education in the University of Life will never he completed till your letest hour.

You have realized that in him end work the method of attainment is of greater imported than the means, the faculty of observation mighter than the power of memory, and the appplication of knowledge far more veliable then its acquisition

It is my duty to remind you of the solean shigations which you have taken here to-day. You have premised that you self in your daily life and conversation conduct gourselves as become sumbers of the University, that to the ulmost of your opportunity and abitisty you will support and promote the cause of morality and sound learning, that as far as in you her you will suphold and advance social order and the well being of your follow sen.

I need not remand you that these are no merely formal promuses, though made in accordance with a set form, nor are they the less hinding on each of you severelly though rathfield by all semilateness? You here undertaken a greet responsibility, but if, se I cannot doobt, you have derived the foll benefit of your training, you will be able and ready to discherge that responsibility with credit to yourseltes—and to the University, for to-day the University has constituted you the goordinate of her hospor in the wider worth.

Higher education is to day on it e tref, and its critics are many and releatines. The system is padged not in its accelemio or intrinsic merits, but so its actual products. And this is a feir criterion, for education is not a lifeliese system that a living inattrament.

What has been colemnly promised by you, labor and gratiened, prou whom professional degrams have been conferred, is morally hinding apon all who pursue bocontrable and useful call rugs, annuly, to maintain their purity and reput ton and arter to detaile from the straight path of their homomobile exercise by making your knockedge analysers to introorthy suits.

In his ideal state, the name of which has become a hyword for impracticable schemes. Sir Thomas Mora skatched a practicable fulfilment of such promises :

 $2\dot{8}$

'The Utopians,' ha wrote, 'consider it an evidence of tree wisdom for a man to pursee ble own advantage as far as the laws allow it, but they account it plety to prafer public good to une's prirate concerns, and think it unjust tor a man to seek for pleasure by anatching another man's pleasure from him On the contrary they think it a sign of a reatte and good and for a man to dispense with his own advantage for the good of others and believe that by this means a good man finds as much pleasure one way as be parts with another; for as he may expect the like from others when he may come to need it, so, if that abould fall him, yet the sense of a good action done, and the seffections which he makes on the love sed gratitude of those whom he has so obliged, give the mied more pleasure than the body could have found in that from which it had restrained itself. They are also persuaded that Goo will make up the loss of thom small pleasures with a vast and andless jay, of which religion easily convinces a good soul,"

Whatever may be your occupation in life, be appa that your personal character will be reflected in your discharge of its duties, for it is impossible to adopt one moral standard for your public life and another for your private. Thu temptation to do so is one to which many and comb though the moral standard of human life in all its varied activities is constant and immutable -industry, integrity, modesty, and benevolence,

The responsibility which you have assumed demands above all clas that key-stone of wirtus in man and woman-moral courage. It is the absence of moral courses that spells degradation and ruin for individual and social life. atudenta you have acquired an eptitude to learn which will always lead you to seek and follow tho guidance of all whose opinions are worthy of admiration and respect; but you have also attained a position in society which justifies and demands of you a stordy independence of thought. deliberate formation of accurate and impartial judgment, coorage to act upon your measured aninians, courage to alter those aninians if means. sary, courage to respect the mural courage of others, and courage to bear the consequences of your devotion to conscience and daty. This is . , a Sir Thomas More, Utonia.

the harder road. Facilis descensus Averno. It is fatally easy to bow the neck unquestioningly to the roke of public or communal opinion, to court the breath of popular favour by a bliod ucquinecence in the prejudices and experstitions of the multitude, to echo and imitate the thoughts of others as slaves of convention, not as pioneers of freedom. This would be a betrayal of the trust of individual privilege and prerogative, a stain on the honour of the man, a stain on the honour of the University.

As educated ladies and guntlemen it is your high calling to advance as the leaders of public opinion, as the appointed representatives of the sacrad cause of progress, not only to preserve traditions that are good but also to create traditions that are better, always bearing in mind that nothing but indigenous enterprise and effort can change or modify the enstome of the race,

Fine mexima and poble contiments excite a warm glow of feeling which is too often mistaken for thu action to which they prompt, but character can be built up only by acting upon anob fashings and using every opportunity for doing so. Thera is no more pitiable or pathutic spectacle than that of men and woman scinsted by noble motires indolging io a weak sectimentalism unredeemed by one manly act. Such an equivocal attitude towards life undermines not only public confidence but also personal character, A strong initiative and a datermined persavarance are what is meded in every community of men to bridge the gulf that too often separates platform and practice.

In the task of upholding and advancing social order and the well-being of your fellow-men, it is speyitable that political considerations should arise. As atodeuts you have probably realized the dauger and futility of immatore minds attempting to prapple with the intrinate and problems of statesmanship, graduation you have incurred in some measurs at least reaponeibility for leading or for mislead. ing others. No discontent can elaim to be diving unless it has a worthy and a practicable object to view, to be stained by honourable and straightforward meets, nor can say political criticism be worthy of the name it is be devel of sound commoncesses and appreciative aymapthy for nicelligent co operation is the key united British Rule.

But the somel and political influence of the deducated classes is not comparable wither in ferce or in opportunity with their moral influence in the land. It is not brilliancy of intellect that can hest illemente-personal character or callighted the nation that the apleadour of moral courage and the rade acce of Denity

Graduate of the year, in you is represented the flower of India's youth. See to it that in your generation you fold your natural destiny by bearing the fruit of India's glovy

ALLAHABAD UNIVERSITY.

THE CONTOCATION ADDRESS

THE CHANCELLOS & ADDRESS

The following is the full text of His Honour Sir James Meston's speech es Chancellor of the Allahahad University at the lest Convocation on Saturday —

Mr Vice Chancellor, Fellows and Graduates -Oor Coovecation to day 18 held on the 25th enniversary of the incorporation of the University of Allebebed Our Act or Charter passed into law in September 1887, and on November 16th to the same yeer the University came into suist eoce as a corporate body, with that distinguished administrator and scholar, Sir Alfred Lyell as its first Chancellor We mest then on an enspicione day, with a quester of a century of history behind as Brief indeed is that period beside the venerable sotiquity of the great Universities of the West But for the wide reaching provinces in which this University has raised the torch of learning, it has been a period of progress in which our Alma Mater has played no smell or agnoble part. Icto the public

services, into the learned professions into the world af trade and sodustry, she has now heep ecuding her sons for a generation, and she may well be proud of their record Moch lies before her in the near futore New lines of thought and new social theories will force themselves across her traditions. Naw fields of teaching will have to he surveyed and nutered poor The intellectual basis for new claims of personal right and new ideals in politics end morality will hown to he searched and tried. The burden of them changes will press ppop us all, but it will rest to a special manuer upon the University and on those whom it seeds not to influence the young All your wisdom will be required, all ynor patience all your patriotism. If the resolt is to he good and not evil. The task is no light one, but your experience of the past 25 years may manire you with the hope of success You have worked with those who have the good of Ind s et heart , you have rooted the University in the confidence of the people, you have assisted end to operated with the Government of the country If these controve to he your principles.

e hrillient foture lies before you Doring the last scademic year the University has shown all the vigour of its comparative wonth It has affiliated a number of important colleges in additional subjects, it has settled new regulations for degrees in medicina and surgery, and at has examined allogather the very large number of 6861 candidates. It has gaioed a new dignity in the bandsome Sansta Hall which wee formally opened lest August , and at has anifered a severe loss in the resigns tion by our Chief Justice of the Vice-Chancellorship which he had held for the previous three years. The lustre and distroction which Sir Henry Richards lent to that office, and the spengy with which he devoted himself to it smid his many other pre-occupations, are well known to those of you who worked under him, and have earned for him the gratitude of the University I can wish his successor, Br Sundar

Ital, no kinder fortune then that his reign may he as enccessful and as popular as that of our distinguished Chief Justice.

GOVERNMENT'S EDUCATIONAL POLICY.

Members of the University, when your present learned Vice-Chancellor invited me to eddress Convocation to-day, he suggested that I should explain my views and the policy of the Local Government regarding education. In do that would est up the short hours of the remaining day. and would undaly detain our young friends who are easer to return to their homes in all the new dignity of their degrees. But nerhaps von will accept a brief ontline of how I estimate our present and immediate needs. As we know well. education, like religion, comes to bring not peace hate sword. It brings not the peace of passive acceptance, but the sword of questionings and eserchings and strivings. To some minds it brings more. They see in edocation the motive power for that parest which makes men discontented with their social anvironment, with their employers, with their government. They regard aducation as responsible for the disrespect of servent to mester, of the young to the old ; responsible for many disquietieg inroads on our sucient peace. With such doubts it is impossible not to feel some sympathy. But we may look beyond the present twilight of our educational system to a clearer day. The stage of transition and adaptation to new ideas may be long. It will pass however-such at least is my hope and halief-into a stage where educatino will not be divorced from contentment, or thu pursuit of knowledge from reversuce.

In any case, gentlemen, the practical position with no is free from all ambiguity. The gracions announcement of the King-Emperor at Delhi hee shown as the way and set ne par course. The Government of Indie is presided over by a Vicercy whose werm sympathy and maparing labour ere, es I can assure you from personal knowledge, devoted to the advance of education.

And under Lord Hardinge's Conneil, you have a skilled department specially created for that cause and now estiling down to the great task before it under the brilliant leadership of one whom you all know-Sir Hercourt Butler. The Government of this country has thus put ite heed to education, and we cannot turn back the hands of the clock. My viewe, and the policy of the Local Government, are therefore, exceedingly simple. We are bound to push on the education of the people in all its branches, by every means in our power. A comprehensive scheme of our operations is now being prepared. It will show, I have the order in . argency of our seeds, their approximate cost, and the ratio in which the work may properly he shared between Government, local bodies and private enterprise. When the scheme is ready, we hape to publish it for discussion before it is submitted for final anthorization, and to be favoured with the opinions on it of the University in particular. What the achems will comprise, I cannut yet say in detail ; but certain essential festures In it are clear, and I will mention them in the briefest possible manner.

PRIVISE EDUCATION.

Let us begin with primey education. We hope in see it widely extended as rapidly as respectable teachers can be procured and trained. For that purpose we must establish more training centres and shove all we must provide for a scale of pay which will enable nur primary achoolmesters to live in decemey and self-respect. There is on reform with etropper claims upon as in common humsuity and in the interests of the rising generation. Then we cherish the belief that primary education could be made manch more serviceable to the people if it took more account of the needs of the agricultural and artisan classes. A proper system of primery education should provide suitable instruction, not only for the children who will use the primary school as a stapping-stone to the secondary echool

hy building bostels, and by pressing for adequate expertation. But the in-dwelling spirit from which these virtues flow must spring from the minds and influence of those who have the College under their delity care.

THE UNIVERSITY.

Lastly, we come to the University itself. For it I hope that our achema will provide liberal assistance. By the establishment of a Law College the first steps has been taken towards the transformation of the University from e purely examining body into a gennine teaching University. The orders of the Government of India on your propossis for the utiliastion of their recent grants of Rs. 45,000 a year and a lump sum of Rs. 300,000 in the establishment of three additional chairs are still awaited. I trust that in principle at least your auggestions will be approved. The most argent need of the University is more teaching and more post-gradosts and research work. Apert from this, money is required for the construction of the library block, Sir Swinton Jacob's plans for which are ready, for a Law hostel, for residences for the Principal of the fraw College and the professorial staff to be attached to the contemplated chairs, for the purchase of books and for general administrativa purposes. For some of this we look partly to the endowments of plous donors; but Government will also try to belp, as it is identified with tha progress and dignity of the University which, whatever the foture may bring, will always retain the honour of being the senior in these provinces. And now, gentleman, you have my confession of faith about admostion. I have omitted much, and especially all controversial matter. There is nothing naw in the statement nothing original. Most of the reforms on which I have touched were worked out under my predecessor Sir John Hewett, and all that is now being done is to bring them together. For saying so much se I have done, my excuses must be the

Vice-Chancellor's injunction and a desire to avert any suspicion of heterodoxy in my educational creed.

ADVICE TO STUDENTS.

Members of the University, I must not fax your patienca much longer. But will you, at my first meeting with you, permit me the expression of a faw thoughts which I would commend to you end to the young graduates who have to-day received their degrees. I do not profess to speak to you as a man of learning. I do not wish to invoka the gubernatorial authority which has, been for only two months on my eboolders. Bat I have had a greet deal to do with University gree and I have wetched tha cereer of many of them with affentionets interest. Above all, I have a fervent faith in the rise and progress of lodls and a deep conviction of the part which our Universities can play in the up. werd movement. It is no your citizenship, therafore that I should like to offer a few words of advice to graduates and under-graduates plike. I am not going to weary you with platitudes about education being a means and not an end, for about the imperfections of our literary training or how your adnostion does not conclude, ball only bagins, when you take your degree. All that is common knowledge, and until we conmeka our aducational system a mora powerful! agent for touching the soul and temparing the character these traisms are but irknome were binge. What I sak you to consider to day is the special phligstion of life and example that rests on you en University men when you go out to work among your fallow citizens. You many forget much of what you learned at College. Your classica may get rusty, your science out of date, your history abaky, your integral calcules a nabulous memory, but the spirit of your college life should ramain the bard work, the esprit de corpe. and the belenced judgment; and it is this spirit with which you osn illuminate the ordinary business of life. Moreover, a degree makes yo

a merked man, your neighbours watch you, copy you, see indiscued by you may most asspect. Each of you in his circle is the touchstone by which the veloe of education is tested, and on your condoot the credit of the Uouvanity lergely depends. What is it then that you can outry away effect your college days are over, and use for the hettering of your fellows by precept and by example? There are many each things, but three of them stead clearly out. You have learned the need of a sulm and balanced judgment, the value of coordinated effort and the supreme power of truth. I have a vary few words to say on each of there.

Calumess of judgment is, what your books beve

surely united to teach you the dispassionets marabelling and weightor of facts in urder to determine their effect. The need for similar judgment must appeal to you every dey in the practice of your profession or celling at turns the balance between encoses and feelure at every etep in youe nwn effeirs. Will you not nee it elso gentlemen, for the benefit of your neigh bours? Their judgment has not been trained as yours hes been They will tern to you for gradence When foolish and baseless rumnors ere unsettling the people, whether about public effairs oe otherwise, you can do much tu diepel them When guests of emotion site the crowd. you can apply the eddetives of common sease Bogus nostrums, in politics, in mediciur, or in any other ephere of life, do not take you in, and surely you can help to relieve your ne ghbours of their tyranny You heve been taught to judge between good and evil Exercise that gift, and land it to your neighbours You will thus help to make them happier and hatter citizens

The second lesson which I sek you to share with others in the value of combination It is not a lesson that needs a University to teach it but your bristory and your mathematics must have given you a screenish base for it and must have stangth you to be peculiarly setchful for the beginnings of friction and disnitegration

You know, with a conviction that passion should never shoke, how certainly dissension undermines the family and the Stale. It is to you educated men that the wall wishers of India look, to check dissension and to impress on your neighbours the disesters which attend it You have endiese upportunities. There are the family querrels which are constantly with us, they have often the most trivial origin , but their ust result is that enormous sums are poured into hitigation which the country sadly needs for fertilizing its soil and fostering at a industries Then again. there are the petty isalousiss which clog public life and interfere with municipal advancement And there are meny other instances of wholly needless feation. To my mind, none of those at the mument is endder or mora unuscoseery than the acute distrust which in many queriers is threatening to breek up the old friendsbip between Hundus and Mahomadons If it wers a mere pessing wave of temper, I should say nothing about it But, in parts at least of thesa provioces raciel feeling is now permeeting and ambitteriog the life of the community to an extent which I have never observed before There is no justification for it Hindus and Mahomedans bave lived in emily in the post without nov sacrifice of their respective rel gious Nothing has happened to make it impossible for them, with a little mutual forbearance to do on atell Gentlemen, there is much that you can do to prevent these divisions When I enquire into the causes of achisms I am sometimus told that educated or professional man have been forulved in fomenting the trouble I hape and frust that my toformation to wrong ; I set too high a value un education to belive that it can readily be degraded to such a use. I em confident that you at least will place patriolism above self interest, and I appeal to you to exercise all your influence in your various apheres of life to check these growing evils I odie cannot be divided and prosper,

The last point on which I wish to touch is the sapreme value of truth. If, as we believe, rightenomees exalts a nation, it is your duty and miss if we wish lodis well to wage incresant war on half tenths and falsehoods. Your education bas taught you the great and ennobling power of trath. Carry that knowledge into the circle you live and work. Sat your face against intrigue and back-biting. Practice plain speaking and ancourage it in others. When the people are being misled by a false guide help to unmask him-Whee lies are criculated about the actions of Overoment, or the motives of your public mun, or the character of your neighbours, disown the Education bas stood faleshoods and attack them for the ramoval of corruption from public life, from the public services. Let it make an equal atend against intrigue, misrepresentation, the thoughtless untruth, the melicious lie.

Members of the University, I have come perilonaly near to preaching you a sermon this efterecon. I ask for your indulgence if I have strayed beyond the ordinary academic limits of a Convocation eddress. But you, who represent the forces and products of education in these provinces, are if I can gain your confidence and co-operation, partners with Government in the great work of progress and ealighteoment. At this my first meeting with you, It is my enzious desire to bespeak your helpend to suggest the lines on which you can work for our common object. Edocation has its responsibilities as well as its privileges. Accept these responsibilities and oin hands with those who have the welfare of India deep in their hearte. So shall we move forward slowly to a great Imperial ideal of citizenship, like ento the "secred fane," which was to be no home of party strife or sectarian sobism.

But loftier simpler, always apendoored.
To every breath from Heavan; and Truth and
peace.
And love and justice came and dwell therpin.

Such, according to the post, was the dream of the Emperor Ather. It may be only a dream, The militantism is not yet. Universal pasce and happioses is a front fidell. But we can all this is no or degree influence those around useful the inhusace of ne decated man sha's yaken particularly its own. If you can use that influences in the direction of greater charity, concord and truth, then the University will be jostified of her children and the Kingdom of God will be secur-

EDUCATION IN THE MAGAZINES.

Mr. Edmund Gosse on Poetry.

Mr. Edmond Gases presided at a Browning Centerary dimer given at the Botel Ceei by the members of the Poetry Society. Among the gorets were Earl Brassey and Lady Hales Brassey, Lord and Lady Southwark, Lady St. Davids, Str. Squire Bancroft, Mrs. W. H. Kendel, Mrs. Edmond Gosse, Mr. Iersel Zungwill and Dr. Blake Oder.

The Chairman, in proposing 'The Immortal Memory of Robert Browning,' said that he was not aware that this dinner was to be associated with Browning's rame. It was the twenty-third anniversary of Browning's death. Now, had it been the taenty fifth anniversary, he felt that his elequence might have been inflamed, but on the twenty-third appiversary of a melencholy event he did not feel that there was very much to be said; and therefore he proposed to take for granted the fact that this was a Browning celebration, and torned to another subject, on which he had intended to speak. Speaking that on the subject of poetry generally, he said that there could be no comprehension of the real obserscier of posity if we considered it as an ert which shruptly cessed to develop when we ourselves were approaching middle life; and yet that was the attitude of the majority of those who discussed it. They seemed content to believe that what came into existence in the far-away dawn of homes istelligence, and had been the living ornament of meakind ever since, seddenly became a museum of specimens a few years ago, when they ceased to be young and frieky. But the elements of joy were starnel, and it was not in poetry, but in coreelyes, that the sources of vitality dried up. Disenchantment, the sin which did most easily beset us in advancing years was the taken not of healthy taste, but of the deadly and anti-postical acepticism which was the antithesis of good tasts. It was important, therefore, that we should continue to look put for nev expressions of partic genius. But we must b enre that we were not led eway in our desire to be discovering novelties, or duped by a merself-advertising violence, or by revolutionary arti fices which had nothing truly poetical about them. Wu needed to divest our minds of prejudice agricust everything which was new and strange and at tha same time to he on our guard against preposterous disregard of those principles of harmony and heavy which were absolutely essential to the existence of postry.

Mr. C P. Ramaswamı Iyer on Education

Mr C P Ramaswami Iyer mada an interest ing speech in seconding the resolution on Edn cation at the Bankipore Congress from which wa extract the following—

Not the least notable of the Royel boons announced during the visit of the King Emperor was tha menguration of a forward movement in the educational policy of the country by a liberal tottal grant in the cause of education and by his gracious promisa that that grant would be augmented as time goes on His Majesty bas theraby evinced his deep and abiding love for the messes of the country and his solicitede for their trua welfare. It is nunecessary to dilata on the absolute necessity of a system of free and compulsory education throughout the country Oce need only recall to one's mind the famona dispatch of Lord Curson, who himself has declared that the extension of elamentary edu cation is the only true solvent of India's troobles The mem reason for the defeat of the Hon Mr Ghokhelas Bill is the view taken in high official gastiers as to the alleged disprepertionets expenditure that would he entailed by Mr Gokhele's proposels The view of the late Sir Herbert Risley has found fevour that free education is tantament to redoction of texation. Sorely it is impossible to take a more short suchted riew of the situation Free education ought to be regarded not as suvolving reduction of texation, but es the fold) meat of one of the prime obligation of the Stata

Gantlamen, you will realise that throughout the length and breadth of India in the year 1910-11 there were only 631 lakes of school going youth of both sexes and the proportion for that year of echool going population to the wholn population was only 1 9 Evan the most back ward countries of the world, Russia and Ph lip pinas, easily heat us in this respect During thin last decade whilst the military expenditure, expanditure on railways and on the civil establish mente have increased by crores, that no edn cation bas only adrenced by a few lakbs avan this is gradged by those in power, lat them, wa sak, apply to Iodia standard commenantate with those in other civilised countries of tha world. In England 25% of the general ravenness is spent on edocation, in Germany even more. Is at to be telerated that for avery four towns and villages on an averaga there should be only one school for boys and for every 40 towns and villages one achool for girls? Thesa figures apeak for themselves, and unless we are content to let oor masses grow up in ignorance it behoves us in

make all possible efforts to sirve for the introduction of fire and compolery defaction throughout the constry, bearing obserfully in necessary the burden of any edocational ceas that may be lored for the purpose, a borden which ese certainly the more lightly be borns then many another that I can user If by private efforter by commoning Government we can achieve the reform all other reforms are bound to follow newtably and in dua course.

This resolution embraces another senect of the edacational problem, tiz, the establishment of teaching and residential Universities in India. Whilet the spread of elementary education is necessary to lift the marses from the mira of ignorance, this reform is essential if we are to have an organised band of efficiently edocated men to form the vanguerd of national progress Complaints have been frequently heard that higher education in India has been harren of resalts and have so far culminated only in the glorified elerk. The explanation for this is sooght for in what is called the soollessness of Indian education The answer is to be senght not in the lack of morel or religions adnession but in the entire absence of organised edocation To make higher edocation profitable it ought to be imparted somewhat in the manner of our auciente adapting it, of coorse, le modern requirements Each stadent has, as far as possible, to be taken in hand and his individual requirements studied Research is not persible in erowded class rooms cramming for compatitive centests

If again letion end not imitation is to be the arm of higher education, that aim cannot be schieved by a number of isolated examining Universities It is gratifying to find that the Govarement have recognised the extent and megnitude of this evil and have made attempts both at Calcutta ead Decce to form a pucleos of teaching and residential Universities Bot both Stata and privata eaterprise coght to co-operata and cover the country with a net work of reardantial Universities which will impart tros enirore and serve to create a body of atudents who will prompte research and prove the noestimable benefits of the esprit de corps and moral tona which would be inseparable from such a system Deeply thankful as wa are to the inangurators of the Hinds and Mahomedan Univerartice wa want not two but 20 such Universities earwing to morte all the brighter intellects isto a federation of disciplined scholars whose aim will be to earry forward tha traditions of encient and modern cultura and science for the lasting glory of our country,

Modern Languages and the Universities The Need of Reform.

The enuns! meeting of the Modern Language Association was bogue on the 8th and renamed on the 9th inst, at the University of London. The mein antiput of discussion was the modern language courses at the Universities.

Miss Spurgeon resd a paper written by Miss Toke, Principal of Bedford College, London, in which aha declared that the study of modern language, aven with medieval thrown in, had not proved equal to that of the classics in producing a scholarly habit. of mind But she was not convinced that this defect was lobarent to modern language as a applicat of study. It was probably due to the fact that the training had been for from careful and thorough. Possibly there was a conflict between academic and neiliterian sime which did not exist in the teaching of classics and history. What she desired from the stady of leogasge, encises and modern, was that it should widen the nutlook, and train the Intelligence and the reasoning powers A language taught with those ends to view would avail, whether to was needed for business purposes or out. The study of a language trained the mind by demanding accoracy sod by the osc of reasoning powers is the soderetanding of the grammer and history of the language. The ontlook was widened by the acquaintance afforded with the life and thought of a race other that cor own, and by the study of its literature, history, and social customs. She would prefer that German should take the place of French as the modern language most generally taught in our schools, because German afforded a better training for the child's mind and its literature was more easily appreciated by young persons. Latin should come second. Freuch should begin late in the school course, and should be taught only to those children who had a foundation of Letin. Pailing this change they should demand that a student who entered a University with the intention of making French has study must have a good basis of Latin. It was essential for a student of literature to know something of the historical events which formed the background of that hterature ; and he could not appreciate any one period of literatura unless be had some idea of the general chain of

literary development. In the honours examination in blerators the student should be required to write his answers in the Isponage he was studying. In composition a sufficiently Ligh standard was not set in regard to accuracy and nicety of expression. That criticism held good not only in regard to foreign fenguages, but also to English. It ought not to be pouible to phiain high bonours in English at a university, and yet write negrommatically. Thu standard set was still less adequate in regard to the spoken language. The oral test should be concerned unit with excellence of expression. There was a tendency also to insist too much upon the philology to the detriment of the other sides of the subject. This danger could be avoided by allowing greater fiberty in the exemination which would permit the candidates to specialize on the literary or on the philological side.

Professor Milaer Barry, University College, Bangor, outlined the present modern leoguego courses in the University of Wates and indicated reforms which seemed to him to be desirable. Every effort, he said, had been made to prevent the decay of German in the Welch schools, but failure had to ba confessed. Ha thought the remedy was to eccept Garmen as an alternative to Latin in the Welsh metricolation and to remodel the polyarsity course so that under carefully guarded conditions they could offer an honours schema which would at least be as soond adacationally as the present schemes, containing as they did compulsory intermediate Latin oe Grock. As far as modern languages were concerned, he should like a four Years' course, with facilities for apunding the third year at a foreign university. The course should include a knowledge of the history of the country concerned.

The Moral Evolution of France.

Professor Cammina, University of Paris, read in French a page on this moral wavelation of Frence as cerumfided in recent developments in the political Miss of the concept you do the now sprits which that Miss of the concept you do the now sprits which that delired the relighbours many thene, and even the clonds that hid passed over the English political sty of less had not reconciled Englishment to the storough proposalities of French politiciae. Yet there had been tho story which might have expended stantistics in

England The political atmorphers of the French mation was altering and improving. It was becoming more like the political life of England and England was still the country that was most interested in the difficult at of self government. Europe was aptocharge the French citizen with instability in high political ways and to attribute that instability to lightness of heart and midd; to impatence of the tew, it olack of perseverance and of respect for traditions and constiman Frenchmen were growing conscious of the treth of this criticism to seem extent.

The fact that France had subjected herself to self examination in the light of European opinion and had endeavoured to correct her failings was evidence of sdyanced parchological evolution and of a new initiative in the progress of human life The great trial of 40 years ego had produced e serious facling in their minds and hearts Though France had made up for her lose to a large extent and might now look to the future with confidence. Frenchmen hed efudied the moral mesning of sacrifing and knaw themselves better France was trying by the prectical of sports and open erregererses to acquire the behits of self-command discipline, concentration, and combined effort. The Franch were trying how to bandle the Parliamentary machine Thay were trying to put up somathing like s guillotine but they proposed to use it in a manuer different from the old one The three candidates for the Presidency were all scholars and members of the Institute se well as politicians. The average duration of their Ministries was increasing though it was not yet whet it coght to be Tha moral unity of France was progressing and the recent elections pessed to a calmer atmosphere than formerly They were trying to pay more respect to the law and to be less pracefully submissive to the agents of the law Although France would remain a muthern as well as a northern ustion and would preserve the rariety and richness which she owed to her double nature still the moral centre of France was rather shifting to the north. That was evident in the calmusan of France at a recent trying moment. That calmness was quite natural, they were not conscious of at The liberty of Fogland would perhaps always be a little more substantial and practical than that of France. But the liberty of France would probably

remain more intellectual and more ideal. They would always try to retain in their maturity that youthful joyoneness which pleased both them and Englishman

The Geographical Association The Objects of Education

There was a large attendance at the anneal meeting of the Association at London University. The anneal report stated that the number of members was now 1000 an increase of 23 during the year. It also referred in a consmittee which had been appointed by the Association to discease with the representatives of the Board of Education the draft of a new edition of the suggestions for teaching organity in cleamating schools.

Mr Mackinder MP opened a discussion on the teaching of geography and history as a combined subject in echools. Ha and that they had three things to do in education-to teach the three " R'a, " to teach acoper or later some art which would enable a livelihood to be caroed end to meka citizens If they were to make good citizens they must impartha admitted on a low plane-that sense of proportion and perspective that ontlook which came from the study of the humane latters in a priversity. It was possible for them to do much with children between the ages of ten sod 14 provided they knew a great deal more than they taught and selected the great facts both of history and geography correlating them and temohing them with such appeal to the visual ang power that they lived in the mind and presented the grand development of human accrety in outline but outline defined and indelible. The time was when the really important thing for the man in the village was the village pump, now it wis the pisca where his wheat wes grown. He niged that the Government and tha universities in their different ways should require the learning both of history and geography by those who were going to be teachers in the schoolshe was not speaking of the higher secondary schoolsand then give them freedom not requiring them to teach the aubjects arparately but saying to them "Lon have your equipment throw pedantry on one aida what you have to do is not to teach history and geography, but to give an outlook so the interesting

world into which the great majority of your students are going."

Miss Spaling thought that white stementary contains needed at 14, its limitations must be accepted. Her experience of children was that in geography the things which interested were those of their immediate environment, and their it was only with a great mestal effort that they took in was groupphical appeares; that in history, they were structed primerily by individuals, and were little shie too poscelve of communities.

Glaciated England.

Professor E J Garwood, who was elected President of the Association for the ensuing year, save an address on " Arctic Glaciers and Glaciated Postures of Britaie " After dealing with the deposit that characterized the glacial period in Britain ha and that there were only two theories of their formetion which useded to be discussed in the present day. The earlier geologists were in favour of sea ice as being at all events a very potent agent, while the younger geologists supported on the whole the theory of land ice so the chief agent. The edge of the British Isles must here been a cort of debatable ground between the two, for the chief interest of our islands was the fact that in addition to the ice which accumulated on certain mountain centres there were inveding foreign masses. His conclusion from recent study in glacial regions was that England was glaciated by land 'ice, by a series of local glaciers, complicated by two great fee seas, one on the cast and the other on the west coast; and that most of the phanomena praviously difficult to understand could be explained by studying ice is the Arctic regions

Science and Literature.

Sir A. Geikie fon the position in Public Schools.

... The general meeting of the Association of Public-School Science Masters was opened on Wednesday the 8th inst. at the London Day Training College.

Sir Archibald Geikie said that 60 years ago is was quite possible for a man to have carried off the most valuable prizes at a public achool, and to have taken a good decree at the end of his university

career, and yet to be ignorant of even the rudiments af eny branch of netural science, sed consequently without the knowledge and training that would enchin bim intelligently to appreciate the nature and interconnection of the discoveries in science which were working such changes in the modern world and throwing such a flood of new light icto our conceptions of the universe. He remembered meeting on one of his geological rambles in the West Highlands, in his early youth, a men who had taken a degree le arts at Cambridge, and distinguished blought more especially in classics. In the course of their conversation he alluded to the Gelf Stream, le an endrevour to explaie some of the mein consecthat were believed to determine the climate of these islands, when his companion broke in with the exclemation, "Gulf Streem, what in the world is that?" While strongly is favour of ersigning au adaquate place to the teaching of science in public schools, he had always not less strongly fall that the literary side, from its menifold hamen interest, ought to remeis predomipent in any wise system of adnostion. No amount of training in science could compensate for an inedequate training in literature. It was to its literary education that Britain owed the breed of public men who through the capturies had built up her greetness and nothing ought to be done to injure the noble work which the literary side of education still carried on. But in the course of time men had come to realize the interest and importance of science in the modern world, and to comprehend that there were faculties of the humen mind which it was highly important to develop, but which were comparatively little affected by a literary training. Those faculties were best reached by a study of science. Thus the combinetion of the two sides, literary and acientific, provided a scheme of education which, in the pres. ent etate of our knowledge, was the most perfect that could be devised.

Professor H. B Biker, of the Imperial College of Science, was elected President for 1914.

Practical Examinations in Science Mr. Doughas Berridge (Melvern) spoke on "The Value of Practical Examinations as Tests of Scientific Knowledge." He said that the exami-

netions might be divided into those at which an external examiner was present and those more elementery ones at which the invigilation was undertaken by some other person than the examiner The great diffi ulty in the case of the former examination was the lack of suffi tent apparatas for the large number of candidates. London University had everyone it in a most apsetisfactory menner Big questions or so were printed and one was ellotied to each condidate in turn. The candi date had no choice in the matter; he most do the question given to him or loss all marks. The samu eystem had been edonted by the Civil Service Commissioners in the two exeminations that had been beld by them under the revised regulations for enterior to Woolwich When it was remembared that 400 marks were given for practical work in physics and an additional 200 for practical work in champiter, the unfairness of allowing chance to anter into the competition would be nuderatood One of his Army condidates lest July was unnanally weak to science, and elmost the only prenticel work he could do in players were to determine the ancerept expansion of a hourd. It so bennenad that the question given to the candidate to the exemination was to do this, end possibly threa querters of his marks were for the result he obtained. The candidate did not para and he took the exemination egain last November when, as lack would have it, he was again given the seme problem As on Army tutor ha (Mr Berridge) was pleased, as an educationist he was asddened In the case of examinations at which the notual examiner was not present the problem was neturally much greater. For one thing it was almost impose ble to make an adequatu allowancu for accidents which were not seen by the examiner In his own experience a boy who was weak in all kinds of manipulation was being examined in practical chemistry when, near the end of bie ex periment he broke his glass. As in duty bound fie reported the occurrence to the Board on sending tu the papers and the hop was given much higher marke than many who were greatly has appersors but who had the meefortone not to meet with an accident. He could, of course also give up stances of pupils of his having suffered on

justly through the defects of the evstem. Another objection was that for some psychological resson which he did not understand an examiner seemed to take less cars in the preparation of a paper at the working of which he would not be present then m the preparation of one that he would see worked out by the candidates. The elternate prectice of Loudon University, in its Matriculation Exemination, of ellowing condidates to take chemistry as a subject without exacting any proof that it had been studied in an experimental manner was detrimental to the students. His proposal was that all examinations in practical science of a standard not higher then that of "Matriculation" should be ebolished, and in their place a partificate from some responsible person, stating that a given number of hours had been spent in practical work. abould be exected from all oand dates before they were allowed to but for a paper in science. The question of " home students" was a difficult one Stell, he considered that no form of accense was a suitable subject for those working without a teacher. and ench atadents would gein a far hetter intenduction to assence by taking mechanics at the Metricolation Examination than by trying to learn

chamingry by themselves

In the discension which followed general agreement with Mr Burndge as to the one-stiffactory
character of the practical examinations in someowas expressed, but there was a difference of option
in regard to the changes suggested by him, and no
recommendation was made.

Newton in the Echools

Mr W D Figur (Exon) read a paper on the "Value of the Historical Sequences to Taching Physics." He thought that if a teacher made a subject doll by treating a subject historically be might with advantage review the order. If history did not serve the purpose of supplying human interest is might well be mighted Electricity tonehed human life at so many posits nowedays that there might well be different mysic flapposition. The historical sequence must make the proposity, there was less room for difference of oplain. The historical sequence must be approached the subject practically. To

trace the development of ideas which calminated in Newton's discovery was to open a new 'ideovery law to open a new 'ideovery law in the Patting it on patriotte grounds. Englishmen might be expected to know more about Nawton these astock searching and the will law in the stock searching and his will law ing, his second best had to his wife were of minor important. Newton was the one man comparable with the backet of his wife were of minor important on a crysthical figure. Nothody had suggested that of the contract of the principal of the contract of the principal of the contract was the one on the principal of the contract was the one of the principal of the contract was the one on the principal of the contract was the one on the principal of the contract was the one on the principal of the contract was the one on the principal of the contract was the one on the principal of the contract was the one on the principal of the contract was the one on the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the one of the principal of the contract was the contract wa

Mr. O. F. Dariell entwitted that in the class instruction the teaching of "darking" should be painted she background, and that of "roomage" be given priority in noder and importance. The word "roomage" was used in the Kay. The word "roomage" was used in the Kay. The meast English articulate term was "specific reviews." But though the drastingent the single word, with its familier room, we notherous and as "roomage" afforded direct appeal to the eye il wes more easily grazed by logs than "danking."

Teachers and their Salaries.

The Conference of the Incorporated Association of Basdmatters was continued on Widnesday, the Sh fast At the outset the meeting passed a rote of conditions with the relative of the late Came Bell, who was President of the Association to 1908. As interesting debate such place on the proposed new actions of examination for responsions at Onford, that the Conference, while approxing the relations in general, expressed its regret that Greek still remains a computing subject. The conditions of severice of saistant teachers were divensed, and a resolution was adopted urging the establishment of a lequate salvey acute in secondary schools, due regard being paid to the cost of tiring in the different dataries.

Dr. McClure opened a debate on the question whether or not secondary schoolmasters should become Government servents, but no resolution on the subject was submitted.

The Rev. C. J. Smith (Commersmith) mored, that it is a matter of urgent necessity to establish adaptate satery scales in secondary school, does regard being paid to the cost of living in different districts. It is not it take the as great micellet that very largely the teaching profession was compelled to be a clubte one. It was only when on anxistant master became also a body-keeper sood had many needle methods of adding to his income that he could take to himself a wile. He himself became work as a saley of 240 a year.

Mr. A. A. Somerville (Eton College) said that tha secletant meeters recognized that the headmaster could not do the impossible. They knew that he bad to deal with a needy governing body or with a local authority without noderstanding which was much more ready to huild ornamental adifices than to pay the assistant masters adequate estarios. But beadmesters, even if they could not make estaries edequate, could give their staff anob spare time as was pecessory and allow them to use that spare time in other pursuits and in mixing with their followmen-The eccoudary essistant master, taking the whole State of Prussis, received an initial salary of £135 and a final salary of £380, with a rent allowance varying from £65 to £28 in the smaller towns, Every German State provided pensions varying from 75 to 100 per cent of the last salary received, and only half the States and thors the smaller ones, rrunired contributions from the teachers. He also urged that each school should provide live places for the sons of the nesistant mastees. The lowest salary paid aboutd be £150 a year, rising by automatic yearly increases of £10 to £100, and then by yearly increases of £15 to £150.

The resolution was carried uponimously

THE UNIVERSITIES

CALCUTTA UNIVERSITY

Election of Fellows

Professor Chandra Ghose, M A., and Kaviral Jamini Bhosan Sen, M A., M S., have been elected Fellows of the University.

Organally there were four candidates for the two Fellowships of the Calcutta University niz. Dr. Spresh Prasad Sarvadhikary, Professor Chandra Ghose, MA, Kaviraj Jamini Bhosan Sen. MA, MB, and Mr. Dwaraka Nath Mitra. MA, BL Dr Sarvadhikary, howaver, retired from the field as he was averse to canvassing without which there is bardly any chance of being returned, irrespective of the merits of a candidate The contest was, therefore, confined nmong the other three candidates Professor Ghose, however, could count un the support of many of his colleagues as he already made his mark both in the Senate and the Syndicate during his term of office. It was only meat that he encored the largest number of votes Of the remaining two Kevirel Jamini Bonson Son, MA, MB, come in second And the "formal" annunnement of their election has already been mede at a Senete meeting.

Three New Honorary Degrees

A special meeting of the Secate of the Calcuta Durrersty was held recently at the Secate House, College Square Sir Ashotosh Mookarjac, Vice Chenceller, presided and there was a fair attendance of Fellows

The poly item before the meeting was to confirm the recommendation of the Syndicate that honor ary degrees of Doctor of Laterature, Doctor of Science and Doctor of Law, he conferred on Professor Herman Oldenberg, Dr. Andrew Rossell Forsyth, and Sir Tarak Nath Pabli respectively

Forsyth, and Sir Tarak Nath Palit respectively
The Vice Chancellor moved that the recommendation of the Syndicate he confirmed and
the motion was carried with acclamation

University Representative in the Legislative Council

At a meeting of the Calcutte University Senate, Doctor Devapresad Sorbadhikary was elected to represent the University on the Bengal Legislative Council

ALLAHABAD UNIVERSITY.

Election of Fellows

As many es a dozen rules for the election of ordinary Fellows of the Alishabad University Senate by registered graduates are published to the United Provinces Gazette

Every reg altred graduate whose name is on the reguster, whal be entitled to use Each voter shall be entitled to as many votes are there are reactive to the result of the

THE PROPOSED MOSLEM UNIVERSITY.

At a recent meeting of the Foundation Committee of the Moslem University it was considered advisable to appoint a representative committee to act as plenipotentiaries of the community in carrying on negotiations with the Government Mr. Mahammed All, Edition of the "Comrade," was requested to move and Mayor Heaun to exceed the resistance in a speech of great exceed the resistance in a speech of great exceeding the previous discussions which had led to the step the was taking and positified the coclesions at which they had at lest unsummostly arrived

Complete harmony is now once more restored in the commanity. The following are the names of the gentlemen who have been appointed to Bally settle all matters relating to the Maelim University—H H the Are Khan, the Hoo the Rays of Mahmadhad, Mr. Muhammd Indea Khao, Secretary elect of the Aligarh College, Nasab Vikardonolik, Sabekada Aftah Almed Khan, Mr. Naholikh, Mr. Warir Hasa, Mr. Naholikh, Mr. Shafi, Dr. Japah Mahk Madaris Khan, Mr. Rohne Ibala, Mr. Tehne Disab, Mr. Tehne Disab, Mr. Tehne College, Christopham da Ali Jimah, Ph. Phasa, Christopham da Ali Jimah, Ph. Phasa, Christopham da Alica Jimah, Ph. Phasa, Mr. Jouter Hasan Iran, Mr. Fathrodito, Ph. Mahrell Hag, Mr. Mahammd Ali, Zidio, "Coarado," Sekh Yakub Hesan, Nayab Gulam Almet Kaisan, H. M. Mallet

THE PROPOSED HINBU UNIVERSITY

FUND

Statement aboving the amount of donations to the Headn University received from 18th December 1912 to 31st December 1912.

[N.B -- Money still held by the Secretaries of District Committees or deposited in Banks other then the Bank of Bengal are not shown here]

Brought over Rs. 17,02,070-4-8; Pt. Bishwanath Misra Jotsbi, Benarss Rs. 10; Collections from Campore, Re. 15; Raja Rampal Single, O.I.E., Rat Bareli, Rs. 10,0 0 ; Collection from Rai Bareli, Rs. 330 ; Rai Saheh Lais Morlidhar, Amballa, Rs. 100 ; Babu Pran Hari Sen, Banares, Re 1 ; Collections from Bahraich, Re. 6,100 ; Babo Bhairo Dutt Gosbain, Bahraich, As. 7; Baba Rai Bahadur Langors, Agra, Re. 1. Pt. Bhaint Chand, Delhi, Re : 0 ; Bibn Sucder Lal Saho, Malda, Ra. 65 : Collections from Erawah. Ra. 176-10-3; Babu Daokinandan Bhargava, Jodhpor, Ba. 9-14-0; Collections from Sitapor. Its. 100 : total Rs. 17,19,032-3-11 ; Deduct collections from Calcutta as per letter No. 2339 of Babu Gokal Chand, Becratary, District Committee, Calcutta, Rs. 1,101; To'al Rs. 17,17,931-3-11.

ABERDEEN UNIVERSITY.

The Abendean University has recursed intinsation of a bequest by the list Br. Altred Glorest for the foundation of bersaries in the Faculties of the foundation of bersaries in the Faculties of Art and Meldine, and of lecturarity in the Progress of Medical Sciences and the Progress of Educational Sciences, the Interes to be address of the Art Sciences and the Professor of Materia Medica and the Lecturer in Education,

LONDON UNIVERSITY.

Mr. Ratan Tata's Gift.

A solumb he bean transpord for the, administration of Mr. Ratan Tata's gift in Rs. 24,400 a year for N years to the Lindon University to promote the study of methods for the prevention od reliaf of poverty. A boryan is to be formed for the provision of information, and lectures are to be delivered and published on the subject. The contract of the provision of the provision of the provision of the ten connected with the workers of absention has been commoded with the workers of absention.

- GLASGOW UNIVERSITY.

TOW UNIVERS

A Begorat.

The late Mr. Robert Marshai of Glargow has beparabled to the Glargow University, by a special death of the Glargow University, by a special death of the death of the property of the special death of the property of endowing a chair of modern bayasayes to that University. The annual value of the estate is instead using to staylar thousand tropes. There are, at present of the special death of the death of th

OXFORD UNIVERSITY.

The number of new mee who have joined the Univarily of Oxford last Oxford has Oxford has

Reviews and Hotices.

Morats and Morat Lessons, by J. Nelson Frankr, M.A. (Longmans, Green and Co.). 42, 12.

This book is not a series of moral lessons as its title may indicate but a discourse on the question of moral instruction in schools and is intended for teachers. The author is aridently well acquainted with the characteristics of Indian students and has bestowed much thought and expresses very sound views on the subject of moral education in fadian schools. He recognises the limitations to the practice of morality in schools and points out that evalumetic moral instruction as such was never given in any of the English schools, although the pupils acquired certain habits as the result of the discipline mainlained io them, such as the power of Incing hardship and privation, subordination to anthority, responsi-bility, etc. He very rightly says that the surroundings of the pupils bare a greater influence on their morals than the school-room, and therefore only so far as society seconds and supports the acbools will the achoolmasters' victories in this aphere be real.

The sathor then discusses what featings can be calitized to schools to a servine rates it and show considerable insight into the failings of Iodian radests in general. He sho discusses the rale ton between religion and moralty and which of the various executive, can be stappeded to in Iodian achools. The book most marker who have at heart the real well-being of their students and we wish to form in them a sound character.

We are however, not pleased with the etylenf hughlsh used which is too suff for the indinary teacher in schools and is not free from ambiguities and even grammatical mistakes.

KAY TO THE EXERCISES IN EVELISH COMPOSITION, BY W. MURISON M.A. (GEMBRIDGE UNIVER SITY PRESS)

Murson's book on composition has long enjoyed a well described popularity. The present 'Kry' will enhance the value of the hook by enabling those who have not the privilege of stadying it with the help of a teacher, to understand the principles of composition. We have only to did that a 'Kry' is is the to abuse in the hands of an idle student.

Modern Evolish Orannae, of J. C. Aceriald, (Magnillan and Co.) 24

Mr J C Nesfeld, the well known writer of school and college manusle on garmans, has brought out a new rolume for the use of students. These has been some departizer from the traditional manner of argonition, the principles of composition that tradition, coming for sequent recognition. There are a number of appendices no subjects of raile, on Proceed, Figures of Specific Properties of the Proceedings of the College of the C

A TEACHER OF ENGLISH GRANDER AND CON-FOSITION, BY S. AFFAITTA VOL 1 (LAWRENCE ASTLUM PRESS).

This is a book in the principles of gramme by an able and expression of the subject of the video of the first Thetreatment is scholvily, elaborate and thorough its adopted in the new monne classification of terms adopted by the author will command the approral of the Foglish Teachers of te-day to we have no hesitation in saying that it is an accurate and reliable exposition of grammar.

JUNIOR MAGNETISM AND FLUCTARCITY, AT R B.
JUDGAND SATITALY LONDON (W B. CLITA,
URINARRITY TUTORIAL PRESS, LTD.) 21, 62,

This is indeed a va y g xed book a most valcome addition to the volume of accentific mattire at precent within the reach and comprehension of students of Elementary Physics. It has about it many features of interest. The disgrammatic representations of appraising and experiments are

very nice Justice is done to the Theoretical as well as to the Practical side of the subject. The anthors have taken good care to huld on the anbiect on a logical basis by proceeding from the member and the more familiar to the harder and the less familiar parts of it. The experiments described and the apparatus suggested are so ample to character that one using the book need not despay of success in practical work in this branch of Physics The general treatment is most commendable in that it does not depart altogether from the old lines in respect of description and explanation. Of course, the more modern and totalligent view of electric processes is an evidence wherever such is to be preferred The examples worked, those given for exercise at the end of each chapter are useful in their own way Further, the answers to the exercises given at the end of the book are fuller and more in structive than those given in other books of the kind The appendix at the end of the book is well designed and quits in place. On the whole, the authors of the volume have spared no pains in making it useful and instructive in every way Still we are tempted to observe that they would have done well to not ce to their book an to do tron machine, at least the commonest rather than the plats electric one, if not both They could have likewise given fuller explanation of the strong back L 31 h referred to 10 para 2 of page 206 As it is, the student is kept in aus pense which is certainly out desirable. Books of the kind before us are expected to be free altogether from typographical errors. But we can mention one at page 209 section 15d. In the next impression such mistakes will certainly be avorded Nicely got up and carefully prepared as the book is to every way, it is a pity that it does not exactly meet the requirements of the Madras S S J. C. Framination But it might be well used as a companion volume or a book of reference, at there is in it a great deal of what we most went Wa heartily recommend it to our factor students of Sc ence.

THE OBCASIERD SCIENCE SERIES SECOND STADE INDOMESTIC GRAMMERT (TREORDICAL) BY G H BAILET, D.SC., ROTTED BY WILLIAM BRIDGS, LLD, M A., B SC.; RETIRED BY H W BRYDG, M A., LONDOR (W. B CLINE LIVERSHIPT TECORIES PERS LTD) 4, 62

As the authors eay, the volume before us together with First Stage Igorganic Chem stry provide

ample material for a satisfectory course in Inorgamic Chemistry. The treatment of the sebject is quite clear and up to date. The summary of the characteristic properties of each group of metals given at the beginning, as well as the section on the Detection and Estimation of each metal and that on the atomic weights of the whole groop at the end of each chapter on Metals are the noteworthy features of the book. There is a large hody of searching questions on the contents of each chapter given towards the closs which greatly enbances the value of the book. The chapters on Valency, Redin-ectivity, Theory of Onshitative Analysis are particularly interesting, The experiments described are clear and instructive. and the apparatus suggested are by no means very elaborate. The diagrammetic representations of the experiments and apparatos gives in the book are sufficiently attractive. We have no hesitation in recommending it for use by students of Elementary Chemistry.

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THE FUNDAMPRICALS OF PAYCHOLOGY, BY BERLA-MIN DUNVILLE, MA. (LOND.) P. C. P. (UNIVERSITY TOTOBIAL PRESS, LONDON). pp. viii, 382. 4r. 6d.

This small volume, as the sub-title iedicates ia " a descriptive account of mental processes for the use of taschers." While the author has taken care not to econobar the book with a large mesa of unnecreeary and perplexing details, etill all the fuedamental principles of psychology essential for the teachers guidance are treated io a mentarly wey. We assure the author that the psychology exponeded in the book is sound and up-to-date. The emphasia laid on the activa side of mental life is admirable. 'Learning by doing ' Ireated of in the chapter on Perception should be brought home to the teachers in luding schools The iodispensable mloimom of the physfollogy of the nervoos system secessary for a correct enderstanding of psychological principles, is clearly presented. The author is not a victim to the mistaken tendency of viewing psychology as a branch of physiology which some atodents of psychology exhibit. He rightly recognises that physiology is a supplement to, and not a sobstitnta for, psychology. Mr. Domville's bock, ie. on the whole, thorough and well-arranged and will be so illuminating introduction to teachers who begin a coorso in psychology. But we doubt much about the function he would have big book fulfil, es; a text-book of psychology for teachers, since the application of psychological principles to educational problems, is not as much es it can

possibly by Tathe general reeder, we recommend this masses as one which is popular, easy reading and farnishes a good deal of neeful knowledge. Although not written for the delectation of phifosophara who might be left alone since they are already averburdened with ideae the book is one which eyen the philosopher may read with nrafit. A good feeture of the book is the addition to each obspier of a set of questions.

AN INTRODUCTORY ECONOMIC HISTORY OF ENGLAND, BY STANLEY SALMON, (LONGMANS, GREEN AND Co) 1s. 6d.

Thio little volume though intended primarily for school ese presents certain good features which are not ordinarily found in elementary text-bonks. The author does not treat economic history as a mere chronicle of new enterprises and discoveries but tries to give a clear view of the growth of economic idear underlying the present English indesiral system. The devotice of nearly half the book to topics like poor-relief, banking, the labour problem, etc., is bound to stimulate some interest in the minds of young renders and belp them in a rational comprehension of the various sides, both good and evil, of English national ecocomy. The practical utility of the study of a book like this renders it valuable for other people besides mere achool boys.

Hazell's Annual, 1913.

Our old friend Hezell's Annual has torned op as useal at Christman timo to present us with a connected story of the events of the past year and a golda to the questions likely to come to the fore ie 1913 The story of the Belkan War is brought down to the armistics of Tchataldis, and in illustrated by a mon which has the advantage of having been drawn efter the victorious progress of the allied armies, and of chewing, therefore, all the piece-names mentioned in the parrative. Mane illustrate also speciel articles on the Ponama Causl, the Marconi Agreement, and the proposed Trans-Persian Railway to India. The points of the political, social, and religious mevaments of the day are presented with a clearoesa which renders them intelligible to anyone, while the interests of scientific, artistic, literary, and sporting tastes are estered for as fully as usual. Some idea of the axtraordinary attent and tariety of the information compressed into this iedispassable volume may be conveyed by the statement that its index fills \$5 pages and contains about 7,000 references.

Indian Soucational Motes.

Madrae students studying in Europe -The approximate number of the Madeas students who went to Europe during last year has been but down at 37, excluding two who went to America Of this number 28 word Hindus, one a Mahamedan, these the domiciled community and five Indian Christians There were only three ladies in this number Of these, it is understood that 24 have formally or informally consulted the advising committee and tine have expressed their willingness to be under the guardiauship of the Adviser Two of the number ore Government scholars and one is a scholar sent by the Vysis community, eleven intend to take University degrees in arts or agence seven go in for engineering six for the bar, eles en for medicine, four for I C S and other services. two for forestry and one for accountancy Wath regard to their educational qualifications wa are told one is an M A , eleven are graduates three bove passed in two branches of the BA eleven are ra's. four are Matriculates, four hold School Leaving Certificates and one has pieced the Cimbridge Local, while the qualifications of two ere naknown

The Christian College Day —The tweety eccond College Day of the Medree Christian College was celebrated on the 27th altum in the Anderson Rell with Bao Sabadar W L Veekstaramstyre of Berhampers, to be client, when a large number of past and present stodents of the college ware present

A social gathering was held whee light refeedments were served to the greats. The greats then mosed to the Anderson Bull where the needing procedule to the Anderson Bull where the needing procedule to the City Engelson. The town was curried, the sodience standing, and it was bonoared by the sogging of the National Anthem. The Chair man cut is proposed the National Anthem. The Chair man cut is proposed to National Anthem. The Chair man cut is proposed to National Anthem. The Chair man cut is proposed to National Anthem. The Chair man Chair and the National Anthem See The Dr. Miller. Mr. K. B. V. K.-ehm. Ean Bahador theo proposed the tosat of Our Young Friend's and within voice of thanks to the Coart the meeting

The Evolution of Telugo Prose—Prof. B. Sesha Ritt Ras, M. a. of Myssosgram delivered a confidence of four fewers are in Telugo on the above empired to the local Kellikota. Objective the store empired in the local Kellikota. Objective the store empired in the local Kellikota. Objective the store empired in the store empired on the state of the store that the first lecture was preferred and the state of the store of the

In the second fecture he pointed out on what basis a classification of Telugu Literature could be made.

In the third lectors he illostrated with reference that submits charter the pounce the certain specimens of macriptions (which he read) from Nellora Inscriptions could be referred to the times of Kannaya and even bayond that parnod and aboved how to Sandhi, garamatical forms and diction they talled with Nunnaya's proce showing thereby that iredition of Laterty, Teligia proses was firmed even by the time of Nannaya jost as the London than the Couldman of Chartery.

same of Cheucer.

In the last Central the help of the control of t

The fectores were ettended by students for whom they were mainly intended

Re organization of Training Schools —We anderstand that the scheme of re organization of anderstand that the scheme of re organization of moderation of the control of the organization of the school of the property of the school of the school of the most of the moderate being the fociation of the masters employed in these schools in the cackets of Scho-Assinate and Saparateria of Recordery for Elementary Higher Grads and It Prementary Lower Grads Control of the School of the

Grat to Wailer College —The Government of Medica here amounted a great not exceeded and left of the sexual expenditure on Re 12/200 and 12/200

The Tamil Academy — The Freedent and members of the Tamil Academy Madras, had a social gathering at the Victoria Hall executly in order to meet the Hone bla Mr. K. Chudambaranethe Madeiar, one of the newly-checked represent attrase of the Southern scope of Landhollers in the Madras Legislaire Connect. The gathering was extended by a large

number of distinguished and it figential men Boo Babib T Ramakrishna Pillay, President of the Academy, received the guest on arrival and a meeting was then field, presided over by the Han'ble Mr Justice T. Sadsaive lyer, Mahamebupadyaye Swaminaths Iyer epoke of the guest se being one of the fornmost pairons of Tamil Bursturr, being himself a profound Tamil echolar Mr Justice Badssive lyer observed that Mr. Chidamberanaths Mindelier was sure to be an ecquiention to the Legislature Council. He was a seey infigential lendholder in the Tenine Dutrict, and having henefited by Western education had most enlightened views on all Important subjects. The Hon'ble Mr. Chidamberenetha lindelier mede e suitable speech thanking those present for the honour done him and promising to work in the Council to such a way so to deserve at least a little of all the fistering things soid by his friends.

Resel Germen Mission High School Day, Mongoldre -The close of the long term of the scademic year 1912 13 was marked by a grand and impressive erremony in the B G M High School, when the school-day was calebrated in the presence of a large andience V Venugopala Chesty, E-q. 1 O.S., the District Judge, presided on the occasion. The varied programms of the evening began with music by the echool choir. Then the Manager, Mr. Blum, reed the school report for 1911-12, which showed the progress of the school to all directions The next item in the programme was the distribution of prize; these were given not only for proficiency in learning but also for good conduct, for skill in music and draw. ing and for afficiency in outdoor samee Nearly 75 etodents received prises in books. Next came the Cheleman's speech The last stem in the programme was a dramatic performance given by the students of the VI Form. The cermony saded with "God Save the King "

A Pitzadistibition—II was a plassal function which was performed on the 3rd instant by Mr LT Harris TP, CO3, the District Collector, to conscion with the distribution of prizes to the successful pupils of the O B. M. School, Visugation of the Committee of the conscional prizes to the successful pupils of the O B. M. School, Visugation of the town. A big panded was executed in the specion qualregodar courtyard of the building when the school is at present located, and in the absence the school is at present located, and in the absence of the committee of the school of the committee of the present located, and in the absence of the school is at present located, and in the absence of the school is at present located, and in the absence of the school is at present located, and in the absence of the school is at present located, and in the absence of the school is at present located and the absence of the school is at present located and the school is at located and

The preceedings began with the hymn' Preise to God' sang meladionaly by young boys and girls and it was followed by a prayer by the Rev. C. E. Sell. The farce excited roars of langbler and the recitation of 'speak gandy' by Mas M. Janka man was much appreciated by the andience. The Christmax Tree which was exhibited on the stage, erranged for the occa-ion, was of such fine and esquisite construction that it was a delight to look at it.

Mr. D Leaster, the Principal, reed out the more important portions of the Report for 1911-1912, which have testimony to the secollent work done by the institution during the year. The Cheirmen them made on interesting speech, on "The Real Object of Education".

Mr A. Saryaperayane Rao proposed a hearty rote of thanks to the Chair The National Authem was nest oung and the marring dispersed.

Educational Grant -The Government has saucationed Re 18,850 as grant towards constructing a building for the B. G. M. High School at Udipl.

The Arts College, Rajahmundry .- The yearly dremetic performence of the etudente of the Arts College come off recently when they ensured bhokeepasen's 'Hamles' in the Hindu Theetrical Hell The perfermance commenced at 87 M , before a full house consisting of ell educated people-students and gentlemen-of Rejshmundry. The sodience was eprif brund all through the performance end the chief tragic attactions and the thoughtful end vigorous soliloquies of Ramiet were appreciated in profound silence. No pulns stem to have been spared in the way of appropriate action, delivery and ecenic arrangements and the performance was of uniform excellence from beginning to end. An es student of the college, Mr. J Gangauns, t, who successfully tempersonated Othello and King Less un provious occasion, pleyad the burt of Rimlet and it was a perfect success. The King, Ophelia and Puloniae were elso very well represented. The performence as a whole is ea unqualified success and the credit is mainly due to Mr. O J. Conldrey, Principal of the College, who elways orinces personal interest in promoting such bealthy activities of college life.

Admission of students in Saidepet College— The Government of Madres have approach the proposal of the Director of Poblic Instruction to defiguate to the Principal of the Techers' College has power under Rales 113 121 and 125 of the Madras Education Rolles, no fars as that Institution is concerned, to permit late admissions of sudents, to seation their discharge from the Collegs and to great additional leave without expected to them respectively. They also accept the recommendation armsets the contraction of the College and to great additional leave without expectation to time-tables of the Teachers College presented by Rale 124 and to that end direct the consistent from the article of the words "of the Director to the case of Colleges and

Frindram After 2s, LT Assistant Monleagal High School Mayararam, on the ere of his depar-tors to Tionerelly as Lecturer in History in the Hindu College MR Ry K Sashu After 24 1T. Headmaster and President of the Association was At Home to the memb re for the day After break fast in the President a house the mambers assem bled in the High School at 10 ax A very inter esting programme of music mairly contributed by the members was gone through Some of tha members spoke in appreciable terms of the very ameable social qualities of the guest of the day The President in a short speech referred in very high terms in the able work of Mr Algar and said the school was losing a very good and nopular teacher It was then unsuimonaly resolved to place on record at a excellent sarriers rendered by Bir Aiyar in various capacities and to week lim loog ble and prosperity, in his new sphere Mr Airer though overpowared with feel ogs made a auttable reply The members then had a sumptu one dinner at the President aboute In the arening the students part and present of Mr Aifer gars him an entertainment in the school haff After light refreshments an address was presented to him at a numerously attended meeting with Mr D Saldyanatha D kabitar # s , a L, Figh Court & skil and Municipal Conscillor In the f hair Mr Aiyer rose amidet deafening cheers, il anked the studerts In spitable terms and gers them pieres of wholesomandrice. The meeting came to a close with three hearty cheers for the long life and prospersy of Me Aiyar Me O Sciences Aiyar a popularity

was well evidenced by a large number of sindents and some of his collesgues including the Head-matter sasembling at the Railway S. ation pletform at 5 30 FM., to see him off

CALCUTTA

New Year Honours on Educationists.-In the educational circles no two hopopra among the New Lene's Honoura lint will be more widely appreciated than the knighthoods conferred on Dr Francis Darwin and Mr Tarakbath Palit Dr Darwin in a accentist of no ordinary reputation and bla friends and admirers will wish him a long life of bealth and bappiness to himself and of paefulness to the world at large. The recent munificent donations of Siz Tarakeath Palit most be fresh in the minds of our resders and it can be mustly said that the bonnur could have been appropriately heatowed on him years before It is hoped however that the knighthood as a prelade to atill higher I prours and that the great hapefactor of education will long be spared to enjoy his well carned distinction

Ananda Mohan College Mymorolisgh—With reference to the raising of the Ananda Michan College to the first grade status the President, College Consolid bas received the Infoliuming solutions. Principals were of the instant to the General Receiver pregrating the application for Sillietto Gyrasimens given its \$5,000 nos receiving status of conflict outside the College Contributes Each \$6000 on conflict outside the College Contributes Each \$6000 on receivable and the College Contributes Each \$6000 on 1913 14 for portposes of receiving expenditure and forther recurring grant not exceeding Re \$6000 in 1913 14 for portposes of receiving expenditure and forther recurring grant of exceeding Re \$6000 in 1913 14 for portposes of receiving expenditure and forther recurring grants of exceeding Re \$6000 in 1913 14 for portposes of recurring expenditure and forther recurring grants as final to the contribute of the College Colle

The news has given great attrifaction to the local public who horse that the monificence of some liberal bearted /amindars of Myroenaugh will soon enable the College Courtel to fulfil the condition mentioned in the telegram. The public earnesting wish that the A M College be raised to the firstversh state from the next reason.

grada status from the nest session

Post Gradante Research Scholarship 1913.— I Two Post gradente Research scholarships of the monthly value of B > 100 each, and terable for a maximum period of three years but in the first instance for one year ouls, will be awarded early instance for one year ouls, will be awarded early

this year

2. Norand data will be considered who has not pared the M. 4, tha M. So, the M. D. the D. L. or the Misser of Foundation of the Calcutz Conversey in 1910, 1911 or 1912 has been a converse of the Calcutz Converse of 1910, 1911 or 1912 has the converse of the Calcutz Converse of the Calcutz Converse of 1910, 1911 or 1912 has a separent for refined present or who is not a heart for the Calcutz Converse of the Calcutz Converse

2. One of the scho arable will be awarded to a cand date who propose ato carry on original research in some selection sobject, such as hatars and Free cal Science, Chemister, Mathematical Science autompted and are in progress. As for atimulation of private ellow, we are noted that the scales of granter in aid provided to the Education Gods has brought in the provided and the ellow ello

Foreign Notes.

GREAT BRITAIN.

Advisors for Indian Students.—When the post of Secretary for Indian Students was created the Secretary of State decided to ask the co-operation the University authorities in each provincial

where Indiane study, in the appointment of 1 advisors. The Secretary of State, to conaltation with the Universities concerned, has now reads the following appointments, with effect from Janoary lett.—

Cambridge-Mr E. A. Broians, Fellow and Tutor of St. John's College, and recently holder of an A. K. travalling scholarship

Oxford-Mr Stephen Montago Burrowe, aon of tha lata Professor Montago Screwe, and associana member of the Orvil Service to Cryloo.

Manchester-At the School of Technology, Mr. Dolantby; at Owac's College, Mr. Gubert Cook.

These officers and others to be appointed at other centres will make in their day to know and belo the Indian students at their respective Universities, to give them information and assessment, and to set as grandings to Siste acholers and to other atudents if requested to do so by the parents.

A forward Training College.-The new Training College for Teachers at Beckett's Park, Leeds, in described as the most complete educational institution of its type la Europe The buildings here neer eight acree of floor space upon which will atend 1,000 separate rooms. The area of ground enclosed is about 97 acres The principal structures are an Imposing centrel block, locking over a fine awarp of laws, and eight bostele, five accommodating 300 womee studente, and three, 180 mes. There is a tutoriel stell of 30 and a domestic etall of 60. The total number of students in residence is only 450, or 20 below the manimum admissible. The college is the largest residential college in the country, and has the advantage of all the most modern scientific equipments. The total cost of |sed and buildings

A "Public Health Series "—The Syndies of the Combridge University Press are about to imaggarate a 'Public Hyalth Series' of text-books, which sught to be all contiderable value to Municipal anthortike as well as to readers of a more exticult professional order. Such sobjects as sentiary law, fover administration, officiants tretted, and the chemical continuation of the sential continuation of the sential continuation of the sential computer Labinos, and books of his kind have a obvious appeal to Municipal engleers, architects, achool teachers, and suchtary officare. The general Educate will be D. G. S. Graben-Smith. Ultivarily Lecture in Hygiens as Cambridge, and Mr. S. Sc. Physics. Sential Control of the Sential

Westfield College -Miss Constance L. Maynard, Mestress of Weetheld College, will reeign her post at theend of the sommer term, 1915 Miss Mayeard will then bave held her present position for 31 years. Her educational experience covers the whole period since the movement for the higher education of women was first mitiated. She entered Girtoo it its earliest days, and was one of the first two women students to take the Moral Science Tripos. She taught for a short time at the Ladies' College, Cheltenbam, and theo joined her friend, Miss Lumeden, Lif D. at St. Liconard's School, St. Andrews Miss Mayoard had already concaived the idea of a resident college for women preparing for the azamications of the University of Loodon which should be fonoded on a defioliely Christian besis, and in 1882 this idea was realized by the foundation of Westfield College by Miss Dadit Brown, Miss Mayoard being appointed the first Principal 10 1902 the college was admitted as a school of the Oniversity of London in the Faculty

Miss Meynard's sorcresor has not yet been ap-

Education in Edinburgh: Annual Report -The acrest report states that during the past year the total number of matricelated students fincluding 572 women) was 3,404. Of these, 1,259 (including 525 women) were corolled in the Faculty of Arts, 466 (including 25 women) in the Faculty of Science. 54 (tecluding one woman) in the Fernity of Divinity, 277 in the Faculty of Law, 1,330 (secleding at women) in the Faculty of Medicies, and 18 (ieclading 15 weened to the Facelty of Music. numbers ie the Faculties of Arts and Medicine show a small reduction, but the number of studente in the Faculty of Science seconds by 40 that for 1911, and by 84 that for 1910, this being the highest number ever reached in that faculty. Of the stedents of medicine, 591, or over 44 per cents belonged to Scotland; 228, or over 17 per cent-were from Eegland and Wales; 95 from Ireland; 102 from Tedia; 265, or 20 per coet, from British Colonies; sed 49 from foreige constrice. These figures show that the proportion of non-Scottish students of medicios is well maistaiced. Besides these matriculated stedents, 87 noe-matriculated students, bave paid the Se. entracce fee, of whom \$9 were women, chiefly attending music and German

literature classes. The number of women stiending

extra academical lectures. With a view to graduation in medicine in the University, was 69.

The following degrees were conferred during Isl2 -M.A. 252, D Litt., I, B Sc, 71 (the bughons number ever reached), D Sc. 4, B B, 6, LL B 20, M B, C M, 2, M B, Ch B, 201, M D. 55, Mos S. 2

The Ceneral Council of the University now

numbers 11.941. The diploms in tropical medicine and bygiene was conferred on one candidate, the diploms in paychi

atry on four candidates The total annual value of the University Fellow sbips, scholarships, bursaries, and prizes now amounts to about £19,420, rus, in the Reculy of Arte, £10,300, Sciance, £1,190, Divinity, £2,010, Law, £570, Medicine, £5,230, and Masse, £120. A number of burearies are in the gift of private patrons, but the great majority of the University burearies, prizes, do, are awarded by the Senatus after competitive examination. In addition a sum of apwerds of £660, being the income of the E arl of Morey Endowment Fund, se sunnally available for the encouragement of original research

The Science Museum . An Advisory Council appointed an Advisory Conneil for the Science

The Connoil will be asked to advise the Board on questions of principle and policy arising from time to time and to make an annual report on their proceedings to the Board, together with any obser-

vetions on the condition and needs of the Museum which thuy may think fit to make Ibn following will be the first members of the

Conneil -

Ser Hugh Bell, Bt (Chairman) bon DC.L. Li. D., Mr R. Elliott Geoper C.E., Dr J J Debbie, FRS. Mr W Daddell, FRS, Mr E B Ellington, MICE, Sir Manrice Fitz Meurice CMG. MICE, SIT MARICE FILMBURGE UALG. SIT Archbold Gelke, K.C.B., F.B.S., F.G.S., D. R. T. Glazebrock C.B., F.B.S., SIT Alfied Keogh, K.C.B., LL.D., M.D., F.R.C.S.I., &L., the Right Don SIT Wilham Mather, LL.D., Sir, the Right Don SIT Wilham Mather, LL.D., Sir, the Right Don SIT Wilham Mather, LL.D., Sir, Univ. March, K.C.B., F.R.S., LL.D., D.S. Ph.D., SIT William Ramany, T.C., LL.D., D.S. Ph.D., SIT William Ramany, T.C., LL.D., D.S., Ph.D., B.D., D. W.R.S., F.C.S. K.OB. LLD. DSc. MD. PhD. FRS. F.CS. the Right Hon Sir Hanry E Rescoe, FRS. PhD. LLD, DGL, and Sir William H White, KCB, FRS, LLD, DSc

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A Comprehensive History of India by the Cambridge University Press -The Syndics of the Cambridge University Press proposa to publish a comprehensive History of India, from the carliest comprehensive History of India, from the carliest times to the present day, on the model of the Cambridge Modern History Thawork, as projected, will be completed in aix volumes of about aix bundred pages, two volumes being devoted to each of the main periods-Ancient India, Muhammadan India, and British India-upder the editorship, respectively of Professor E. J. Rapson, Limit Col. T. Wolseley Haug, I S C. and Sir Theodore Morison, E C.L.E. The various chapters in these sections will be entrusted to acholars who have made a special sindy of the period or subject and the Syndics hope, in this way, to produte a history of the pations of India, past and present, which shall take its place as the standard work Thay are indebted to the generosity of Sir Dorab Tate for the means of providing additional maps and illustrations, which will add greatly to the value and spierest of the volumes.

THE OXFORD GEOGRAPHIES

Vol. 111

THE SENIOR GEOGRAPHY

ET

A. J. HERBERTSON, M A. (O10M.), Pu.D. (Fariburg I.B.) Reader in Geography in the University of Oxford

F. D. HERBERTSON, BA. (LOVE.)

Second Edition.

Price Re. 1-8-0.

The Educational Review.

The Report on the Progress of Education in
the Panjab during the
Panjab Quinquinquentium ending

1911-12 is an interceting record of atendy progress. The pupils receiving Primary education have increased by 27 n. c., Secondary 46 p. c., and Collegiate 66 p. c. Correspondingly the expenditure under each head has grown by 37 p. c., 50 p, c, and 59 p. c. respectively. An Agricultural College was opened in 1909, but it has not yet attracted many popils. The Government Engineering School has been remodelled. Board schools have fixed the minimum pay pf a head teacher of village primary aphools at Rs. 15 per measem and of an assistant at Ra. 12. This is gratifying. The present day fad of religious instruction-a cry which old moral decrepits so frequently raisewhich men with pro-government viaws expect to develop lovalty, but which is more apt to develop the Pandit or Monlyie cast of mind and will, if anything, promote disloyalty, is looked on with favour by the Lieutenant-Gavernor, who promises to farther the erection of denominational hostels. But we agree with Mr. Godley, Director of Public Instruction of the Panjab in regarding "the definite merit of associating pupils of all classes and creeds on the same plann and thus promoting mutual forbearance and tolerance" and mutual understanding and wearing off of angles is moral education in the best sense and the only moral or religious education that ought to be attempted in schools. Ontside schools, there is religious education ad naussam. The average Hinda or Muhammadan household is saturated, nay oppressed, with the heavisst religious at-

mosphere imaginable. Let bove have some respituat least in achools! Indeed, in this very report we are now considering, para. 7 approves of religious education, but para. 10 deplores " the tendency on the part of certain private institutions... to foster acctarian rivalries." In England where religion is less finid than in India, where on the whole social life in freer from pseudo-religious convention than here, where public education has been organized for a much longer period and where general enlightenment is much more widely enread than in this country, the Education Act evoked such savage passion and such ridiculous excesses of demonstration but recently. Yet people bere light-heartedly propose to wreck the little education that is imparted to India by floating it un the turbulent sea of religious discussion.

Eays Mr. Godley, "the Panjsh University continues to maintain two teaching colleges—the Oriental and Law Colleges."

En passent, we thank

Mr. Godley for the phrase "teaching college " and bone that in the other colleges, there is no teaching but lotting the brains of popils grow " of its own accord." With regard to the former of these institutions, we learn, "the Oriental College embodies the intentions of the original promoters of a University scheme for the Paniah, and as such is an interesting sprvival; it is lacking, however, in vitality, and is chiefly kept alive by the aid of acholarships and stipends. The College has three functions. It prepares students for the various Oriental title examinations of the University and also for the Oriental degrees of B. O. L. and M. O. L. which were supposed to represent the attains

ment of European learning through the medium of the Vernscular languages, while it else undertakes the instruction of the arts students of the Covernment College in the classical languages of the East Owing to the failure of the Oriental degree courses as formerly constituted to attract candidetes, the regulations were changed during the quinquennium so sa to make these courses include a knowledge of English, combined with Indien History and Oriental languages The result has not been encouraging, only four students having obtained the degree of B O L during the period and one the degree of M O L, and it is fairly evident that the revised courses are hybrids which do not at present appeal to students either of the old or the new typs" In Madras we have just adopted these "hybrids" in one University and further hardened them with impossible courses of study in Oriental and European learning, for the University has published a list of hooks-enrrent and ont of print and not yet in print both up todate and hopelessly out of date-and withsl so long, that none but an immortal can negotiate it, as part of the course for these title examinstions Yet with this pretentions syllahus the Madraa University is so hankrupt of Sauskrit scholership that it cannot devise correct names for these titles ! One title that it proposes to sward is Nyäyss'iromani-the creat pawel of logic. How can a man be a lewel of logio? He can be a lewel among logicisns—Nsiyāyikas iromsai, ntherwise he is no more a man but a book and this is the reward which the University gives for an impossibly long course of study l

Me Godley discusses the evils of examinations dominating school The Mstriculawork, a subject on which tion Examination has been written a sensible note, printed in the Appendix to the report by Mr Wyatt, Inspector of Schools Mr Godley thinks the criticisms of this examination "much exeggerated" He consoles himself with saying that "o teacher who has higher ideals then pass percentages can both educate and pass his pupils." this remark merely blinks the fact that the atmosphere of examination necessarily kills out the " higher idesla" Mr Godley apparently regards the United Provinces scheme of roving examiners with quelified approval, but, curious to say, does not seem to have heard of the Madras scheme of the Secondary School Leaving Certificate in which the domination of the external examiner on school work has been attempted to be considerably reduced, though not extrepated An Inspectoe of Schools of the same Province, Mr Crosse is bettee informed with regard to what is going on in other provinces Mr Crosse is a follower of the reformed method of teeching English, prdmornly called "the Direct Method." on which he has contributed a short note and which he has introduced in the Panish He knows about the introduction of the method m Bumbay, Bengal and Madras, hot he is wrong in thinking that it was started in Madras in 1908 Nearly a decade before that date it was used in certein schools. He refers to the books on the method by Mr Nelson Frazer of Bombay, Mr Tipping of Bengal and Messra Yates and Scinivas Ivengar of Madras, as also to the heartating, half-bearted attempt to reform Foglish teaching advocated by Mr Wren of Bombay Mr Crosss then describes the experiments he

has conducted in the mathod and closes with a Tennart, which we quite agree with, "I believe that with this method there will he a steady growth in the command of the English alangnage, that with this the main difficulties of our Anglo. Vernacular pupils will disappear, and that we shall got a much more intelligent and batter educated hoy by the time he leaves the fifth high class than is at present the case."

Beside Madras, the only other part of the British Empire that has British Empire that has devised a satisfactory School-Leaving Certificate

Scotland. scheme is Scotland. Au account of it was furnished to the Education Science Section of the British Association at Dandse in September 1912 by Mr. J. Strong. In an ideal scheme the danger of premature appoisization should be prevented by the inclusion of humanistic and mathematical or scientific studies in the compulsory portion of the scheme. The Leaving Certificate while giving the right of entry to a University, should restrict the pupil to the particular course for which he has shown fitness by his work in the optional portion. Preparation for later professional studies or entering into public service or business should also be provided for by correlating their requirements with the school work. The Scotch scheme fairly meets these requirements of the ideal scheme. Secondary education in Scotland begins at the age of eleven or twelve and extends over five or six years-an "intermediate" course of three years and a Leaving Certificate course of two or three years. The Intermediate course, which is the counterpart nf our I, II and III Forms course, includes seven subjects: English, History, Geography,

lish, Science, Drawing. Except for Science, all these subjects are taught in the lower forms of our Secondary schools. The Leaving Certificate course includes at least four subjects, three of which must be English (including History), one language other then English, and Mathemetics or Science. Here the Scotch scheme is much apperior to ours, because nor acheme is burdened with 2 " A" subjects, English, Vernacular Composition and Elementery Mathematics : 4" B" subjects Indian History, Geography, Drawing, Elementary Science, all practically compalsory, and at least two others besides. This loading of subjects is a remioiscence of the Matriculation examination. A good three years' course in the I, II and III in the A and B anhiests all (except English) conducted in the Vernaculars and taught not to enable the pupil to pass a written examination but really well, and that preceded by a four years' course in the lower standards-i.e. a saven years' study of the papil's Vernacular, Geography, (Indian) History, Elementary Science, Drawing, Elementary Mathematics ought to constitute a thoroughly satisfactory course for the average child. English alone and perhaps Vernacular composition (in view of the fact that a modern prose style has to be evolved in this country in the fature by these pupils when they become men) ought alone to form the compulsory portion of the Leaving Certificate conres. To return to the Scotch scheme, the "Intermediate" certificate is given at the end of the first course and the leaving certificate the other. Here, again, we may very well copy from Scotland. Now that our Leaving Certificate has proved thoroughly popular, it is high time the work of the I, II and III Forms be taken on hand and

Mathematics, one language other than Eng-

orgeeized et thet of the three bigher nnes . This will suable the Banhieste and some of the A subjecte to be chifted down. Occ other point we may horrow from Scetland The papers are set to two standarde and excellence to one subject may compensate for deficiency in another "The Intermediate certificate indicates the satisfactory completion of a well belanced conrac of general education, suitable for those who leave school at the age of fifteen or sixteen. It elso acte as a passport to certain technical testitutions and continuatine schools. The standard of exumination prectically precledes the stedy of more than two foreign laegeages ie the course Leeving certificate coursee may be clessified as geeerel. liegeistic, methematical, ecceptific, artistic, er mesical There is so difficulty is selecting a group of subjects which meets the entracce receivements of Universities"

From the second of the Scotch Leaving

The so called dangers of carly specialization

The so called control given above, it can be seen that whereas control controls and some

old fashioned teachers too.

in acason end ont of scason, raise the cry that oer partial apocualization begins too early under oer S L C, scheme, in Scotland the corresponding coerae is entirely a apecual ized scheme, the general edecation stupping at what corresponds to our III Form, two or three years before the highest school cless is reached "Some Notes of Thought in Education" by Mr. A E. Hayees of the University of Minnesota in School Science and Mathematics, edvocates the same system "On whole system of education tends to be extensive than to be intensive, too many subjects are taken to enable the month to be thorough in

Sech a method produces distraction

rather than abstraction, coefesioe instead of order, dimness indead of cleeness, and makes the pupils more like a pariot than a real student "Going through books, does eet necessarily edecate one, eny more thas walking through beactiful gardees make one a botanist. It is good, wholesome food, throughly digested end ass milited, thet numrishes end builds the body" end nut that which is cremmed down ose's threat end aponted forth to the crammer.

It is scercely knowe to those that are not appropriate that the solid Moving coets continuets on which we nents live are not absolutely fixed oe their focodatioe but are subject to motion. Thes though there has been such a great rapprochement between the American people and the people of Great British and Ireland within the last gearler of a centery, the coentrees themselves have literallymeved away from each other. Accords determinations of the distance between Greenwich (England) and Cambridge (America) have brought to light the fact that England and America bave receded from each other by 90 metres to the course of 26 years We learn also from the Scientific American Supplement that longr observations show that Greenland and Europe have in the last 84 years gone apart from each other by 940 metres. This is due to horizontal displacements Vertical displacements of continents also take piace constently. A heavy hody pressing a coetinent makes it aink dowe as a cork floating no water airka when a weight is placed on it. These displacements are believed to be dee to the weight of ice which accemelates on continents and produces the motions which cause these changes of distance

ADY

It makes one eigh with undiagnised envy
The William M to learn of the Rice In-

Rice Rice Instituts, Honston, Texas. etitute in the United States which starts with an endowment of 10 million dollars, "with the foremost educators in the [American] netion aiding in planning the future; with picked men for administrative offices and faculty; and with a vigorous, growing country in which to prosper and wield its influence." The proposed President, Dr. Lovett, travelled all over the world to learn about other institutions of higher learning. 300 sores of land form the site and the planui the building is one "that would embody in encoreding years the purposes of the Institute. The Institute will be open to both young men and young women. There will be no charge for tuition and no fees. "For the present it is proposed to assign no upper limit to the educational endeavour of the new institution. " so that besides collegiate work, post-graduate work will also be provided for. The lower limit will be the entrance requirements of the more Conservative American Universities, The

The virtues of an English education bave

name of the institution alone is plebeing.

An Elon education. The evidence given before
the Public Service Commission that it is worth while to note what each
agench authority as Mgr. R. H. Benson says
about it in the colorums of the excellent new
literary weekly periodical, Erregman. According to him the Eroviana leave Eton
"with a stomp open them, that no uther drace
to imitate, and of which they themselves are
overe subamed; they leave oubuntoned always
the lowest button of their waitcoat, and

count themselves cadets, at least, of the noblest house in the world. But the education she gives them is deplorable." Mgr. Benson won an Eton scholarship for proficiency in Latin and Mathemetics ; be then went to Eton, and left it four years later, a bater of the classins, a fumbler over a som in simple addition, "a disappointment to every one including myself;" "yet I am not wholly without intelligence There are to-day, I suppose, still left two subjects which I can study without reluctance—history and English; enuce in neither of these two brenches of knowledge can I remember a single lesson everbring given tome while I was at school." This apparently a a special virtue of Eton and not of schools generally in England, For Mgr. Benson in summing up his account, explains that the cause of the failure of Eton is doe to want of apecialization, the neglect of the atody of the individuel temperament of the popil, not teaching him what he is constitutionally fit to learn, but to force all to master "mipole datails of grammarians' analyses of the Latia and Grack lenguages at certain limited periods of their development." Let Madrageducationiete note this, for this is exactly what patrintic advocates of the cause of the Paudits and the Tamil and Telugn Academies hold out for-Mgr. Benson further complains that " what is taught is taught drearily " at Eton and "the average Eton boy leaves Eton entirely oneducated," The same has been the case almost up to to-day with us, for dressy drilling in grammatical minutim, mechanical drill in Euclidean deduction, and perrot-like memorization of isolated historical, geographical and accentific facts was all that was attempted in all schools and even now is all that is attempted in most schools.

Mr. Manrice

Mr. Manrice Hewlett has written an equally scathing condemnation of English Buard ing Schools in the Decem-

ber number of the English Review 'I believe," be says, "that when I went to my great acbool I had the makings of an interesting lad in me, bot I declare upon my conscience that it was that place only which checked the promise for tan years or more. and might have withered it all together" The blighting influence of our awa schools on promisiog lads is amply illustrated by the fact that the ontput of literary activity in India is so poor The only remedy is the adontion of the principle of the Montessori method, which is now attracting so much attention in England and which we referred to in nur schitorial notes last month this, that nothing can be more absurd than making svery boy go through the same drill in the same subjects which the intelligent outsider who knows nothing of educa tion and less of child psychology regards as constituting the minimum of knowledge with which every boy's mind should be stocked, but as Hewlett says, "the single aim of the master should he to give every hoy in his charge soms as no loterest which he can pursue to the death, as a terrier chases a smell, in and oot, op sod down, with every nerve, heat and quivering" This and this alone develops intelligence and constitutes sducation But with our cast iron syllabuses schemes of examination, and with our Chinese ideal, of literary examinations guarding the doors of office, and with our new pseudodemocratic ideal according to which a person who knows nothing of a question hot who can shoot most loodly is the most qualified to give a prononocement on it, is there any room for

modern ideals to be understood, much less to be adopted? Hewlett condenus "drill in achool, laisaez fairs not of it?" In the case of the Indias school boy, drill in school and drill at home, allows no scope for the fair flower of the soul to bhoom

Several books published during the last two An Anglo Indian or three years have given poet John Leyden the he to the charge of harrenness usually made against the education given by the Madras University , and " Ao Anglo-Indian poet John Leyden" by Mr P Seshadri, whom we proudly claim as one of our most valued contributors is sunther plorious refutation of the charge John Leyden was a priest, a doctor a poet a lunguist a judge and a soldier of the first decade of the nineteenth century, who served in India China and Java for an all too short period of eight years and then died Mr P Sesbadri has collected and published hie Indian poems and Istters and formshed them with a Isserted introduction We are glad to notice that Mr Bashadri in quite up-to-data 10 bie methods of literary criti cism but we cannot congratulate him on his remark that the members of an unfortunate Indian casts are 'probably meanable of feeling the emotion of Love," to his notice of Leydeo's Song of a Telinga Dancing Girl for we believe Levden showed a truer discernment of human nature and was not loftuenced by Pharisaism. All other critical remarks of Mr Seshadri are felicitous and illuminating and calculated to belo the reader to appreciate the literary ments of Leydeo's writings and the poble characteristics of this versatile Scotchman who to talking to Brab m ne "musted on claiming divine descent for himself," beiog a descendant of "Adima" sod " Iva," children of Manu Syayambbu

The Indian poems of Leyden as well as his latters descriptive of Indian life cannot but he of absorbing interest to Indian resders. It is a 1 ity that hegish literature, desling with Indian

matters, though it consists but of scraps, is medulously a voided by the University when it prescribes books for study in Indian schools and colleges. Stories and poems dealing with far off scenes and modes of life absolutely unfamiliar tu master and pupil slike, accounts of mediaval tourneys, life in monasteries in by-gone ages in Central Europe. Scotch horder-raids, the loves of Evangeline and Dora and other maidens that the Hindu papil cannot feel much interest in are prescribed year after year. It would seem that nothing that can touch the Indian imagination is fit for Indian schools. The people that prescribe books consult their own tastes and whatever appeals to them up rether appealed to them when they were children running shout on English meadows or playing hids and. seek in rulned castles of Norman Barons are naturally sat for study. And afterwards people

eay that the study of English literature bas not had any appreciable influence on the Indian imagination. First rouse the imagination by appealing to it through local colour, by making pupils read about what is familiar to them, e q., Leyden's poems and latters, Heber's Indian poems, Indian tales, of which certainly there are a few, written in good English with a literary flavour ; the imagination, once developed, can book itself on to the antimiliar and comprehend other English literature. Leyden's description of his landing at Madras, his jaunts in Mysore illuminated by his rollicking humour. form excellent reading. We have only to add that the get up of the book is excellent and reflects great credit upon the premier printers of Mount Road, Mesers, Higglahotbam & Co.

Indispensable for Students of History and Economics.

INDIAN MONETARY PROBLEMS By S. K. SARMA, B.A.

SOME OFINIONS.

Mr. D. E. Wacha writes:—"I have executly gons through page size page from heat trues and Leanot has congratulty gons through page size page from heat trues and Leanot has congratulty gons upon the creditable production. Your hook is a remarkable out in a preparation. I can confidently commend the work for all not constructed. Law confidently commend has work for all not constructed. Law no dystems a production of this character from any Indian. Your hoof why and power of expression makes the box intelligible. The quotations are and and telling and your own criticiens to that whole sound that box to go the construction of the whole sound the whole problem of Irdans Currently interiestly, statistically and critically?

The "Capital" writes:—"Book of considerable mark flinging out a bold challenge * * * a is worth reading by publicists like Me. Webs, who are inclined to take a little too much for granted when

foisting their fade on the public."

The "Indian Daily Rews" writes -- "Is in act reserve interesting to find that Indiana are taking to interest themselvain that convercey matter and expressly to flood a work that "Indian Montary Problems of Mr. S. K. Serma * * Mr. Serma is, we are gied to say, a bimetallist, out of the persons who according to the gold boys of Lowbard Street conglet took to be at large."

The "Leader" writtes;—"The case against the proposal to introduce a gold carenog as well as a real gold student of a "s could not have been put more strongly, subbroatly and ship then it has been presented by Mr. St. Starms in his publication on the ambiget \$ " \$. Mr. Starms has moded to be adjusted to the start of the supported strongly on the Mr. Starms has moded in his wignorms at plot of a triated potentiality." Some all avertables material bearing upon its. He commends

The "Hindu" writes:—"The author has done a useful service to students of the sobject is automatising to a systematic manuse the history of this country's monetary policy from the earliest times of British rule."

The Educational Review

A Monthly Record for India

Vot. XIX

FEBRUARY 1913

No 2

THE SIMPLIFIED SPELING SOSIETI The Seemassological Argyument openst

Speling Reform

BI MARK HUNTER, M A

Concrat Secretarior the S Ledus Branch or the S S S IT has been unjul hi literari pursons, hard poot to it to fiend hasses in reezon for a pyuril sentimental preferens, that etimological spelings ar ov servis, not meerl; heesans that teach (so it as vanil; octoredadi; the historium words, but hasses his so duing, that help us to ynes words corectli; that is, with dynerged to thair tra and orijunal messing Such spelings, it is ergyud, tend to saiv the laog my from being contamionated bisolessims and the vulgeriths or alignhod squorner.

It do not, ov cors, ocor to these critics that, if that art to be consistent, that allo not the hecon speliog reformers, ov a sort, and advocant changes which shood could not speling to dischar; this supered forceshom constantiational nod established that the due at prezent. If their argyomeot haz enivabilithat and to receive the speling ov and English words, or at leest or sorter openified chanses ov tham, to he taiced mor or les directly out or Greek, Latio, French and Anglo-Saxon dischanners.

Thair iz, ov cors, a bistori-or pre-histori -ov the sound and meeningz ov wurdz lung far hebiend the dicshonari speliog Eeven aafter the pre historic preried, thair ar mens stargez to the history ov wordz, to form, sound and meening, and their seams no reezon whe con perticyular stail, uther than the laset, shood be stogld out ez speshall ayntabl for epeling purpozes in preferens to the otherz But ov such alementary consideraishonz we can ecairsh ecapeot the atimolos cal speler to tace account. We mai, honever, inviet him to test hiz argynment in the list ov actyoal fact, to egzamin hon far chainjez to meening bay been or can be chect and controlld he arested or arcalo orthografi, and, oo the uther hand, hon far fonctio chainjez in speliog hav been responsible for chargez in meeolog, and whether chargez so efected hav been dieadvantages or tha revers * We shood that he to a pozishou to prepair som aort ov balans sheet-profit hi et mological speling, so much los and waister, so much We, foostic speli g reformerz,

[•] Or core the Engl sh lengw n a grath eartch bit the possision or wards historical is refeated orlyin but at later staye differentiated in promise the many of the staye differentiated in promise them and facation disputit, etc. etc. In a important that repting shoot help in observe these distinctions and not in the styopid etimological will use to oblight the strong call will use the strong call will use the oblight the strong call will use the strong call will be strong call to the strong call will be strong call to the strong call the stro

noe presi wel the stait ov the secont on the dehit sied; and unles the asete et vert immeh mor soosiderahl than hez eo far been demonishen ov the etimolojicel farm iz won av complect and increevabl hancuptsi. A fyn assets hav heen paraided hi waf av saampl the Greek-Latin wurds epelt with "ph" (= f), and the French loen-word 'lientenant." If the rest hev no graiter valpu it mai confidently be secreted that the hoel ston in hardli worth soreping.

Let ue consider the speling 'lieutenant,' and the ph-wardz. The Oxford diceboneri wil tel us that, for sum centyuriz sefter the introducation ov 'liftenant' into English. f-spelings wer az comon ez the etimolojical varieti, and their iz nothing to shoe that enihodi woz eni the wars. Etimoloji fienali preveild. But what hez been the gain? If we hapen to hav no French, the speling lz meerli a puzl tu ns. If we noe a litl French and a lit! Letin we can, no dout, split up the ward into its commonant etimoloiical parts, and then formyplait the cowcishon 'lien tenant = locum tenentem pleie hoelder.' But hon doz this help ue tu a corect vues ny 'liftenant' in modern English ? A liftenant iz not u 'locum tenens' and a locum tenens iz not a plaia hoelder.

And so with the ph-words. If we have a Greek 'ph' profits as nuthing. If we use a full, we can perhaps postyalait 'philos — food, laving, anthropos — men, logos — word,' and then inder, 'philanthropist' — wan fond ov men,' philologiet' — wan fond ov words. But this cort or nolej it hi itself perfectli yuesles. The indispensels thing is that we shood now the appeals meening which the words in cors

ny tiom hay non cum to ecwier. Such nolej iz to be had without the help ov etimoloji, which theez caipabl ov apliing etimoloji hav no sort my yees for etimological epeling. A meer nole; nv the 'derivaishon' iz just az liccli to misleed az it iz to help. Thair ar col surts ny 'lnverz oy men,' from the public benefactor to the ordinari flurt; men hav lavd words in veiring wais: Jacob Grimm in wan wai, Sur Jabesh Windbeg in another. The Germonz spel the word 'philology' neerli az we du, but thai du not meen owiet the saim thing; nur sens is much mor re-The Itelianz, hn miet netynrali prefur the Latin epeling, hav discorded it. That riet 'filantropo,' 'filologo,' speliog, liec sensibl peepl, egzactli az thei prononus. It iz not in evidence that that hav been poot to eni ciend ny trubi in consequens.

THE REPORT OF THE DACCA UNIVERSITY COMMITTEE.

By an Enucationier.

I.

MHE first Teaching University in India is at last within bailing distance. At Decos will be eterted a group of 10 colleges and collegiate institutions with arrangements for hoarding and housing the pupile. So far the echeme counds well. But when we examinu its details, many undesirable features rise to rob us of the astisfection that the first Teaching University talked of so long. ie hound to give us. The final proposals umbody a series of compromises between apposing interests and are not merely an bonest attempt to put educational principles in practice. The Muhammadane would have hu modern learning unless accompanied by holoses of mediavel monivi-dom, preservative of faith in old-world fictions, and the Depart mont of Islamic studies will he oponed to prevent modernism from liberalizing yanng Mussulman minds It only remains for the Hindns to clamour for a Department of Vedic stodies (us Sir Garudas Banorii has alrendy hegnu to do) and provision will certainly be made for teaching the Brahmin pupile tha mysteries of the horse sacrifice, the Mahavrata ceremony (the Panndarika Yagam) and other holy rites, the Paranio geography and the sky lore according to the Surva Siddhanla und Brihat Jataka But Hiodu seotiment has been respected in a different way, by the provision for custe colleges, the 'Brahmin' institution will be the Jamsonath College where low fees will be charged and the pupils will be mainly non resident ones, who will est undefiled food in their own sweetsmelling homes The Kshatriya institution will be the Richman's College, to he started hecanss "the failore of colleges to attract students of the well to do classes is a very serious and far reaching defect of cor edu cation system" Thos the priggery, so care folly imparted in the average rich man's home, can be intensified in the University The Dacca and New colleges will be the places for the middle classes-the Vaisyaof this new caste system Nothing can be more muchievous than this over separation of class from class, sect from sect, in the University No University life is worth hving in mny country in the world, if the rich and the poor ere not to rnb shoulders, if different religions are to revolve in different orbs. In India, under the present circumstances, this is a positive hane. As it is, the rich man is too fall of snobbery, the Moulvie and the Brahmin too full of old world prejudice, and it is a mistaken democracy to provide for the

perpetuation of hoons-poces hecause an iguorant demos demands it

THE TECHNICAL SIDE

The technical side of the University is rather poorly conceived There will be no Agricultural College There will be no Law College but only a Law department in prepare for the Calcutta Law degrees. this is a pity, because ell Law colleges in India are not wlat they ought to he, the teaching very little and the attention paid to each teaching, almost not, the exammations test but the memory In fact ull our Law colleges sod exemications are attructions which keep down as fer ne possible the damoniac prepossession of our young men for the unproductive profession of the Law There is to themuo study or suvestigation of the Science of Law, of the only part of the study that will uppeal to the reason; our Law colleges are not educational institutions but B L mills It is regrettable that the only opportnoity for forming a school of Iodisu Law is not going to be utilized Nor will there he a Medical Collage, hot the first year's course of a medical college .-which generally consists of a preliminary course of Physics, Chemistry and Botany .will be provided for in the colleges of the Decce University This semi affiliation to the Calcutta University is another undesirable feature of the scheme If the Dacca University cannot make provision for legel or medical etudies, why not leave them severely alone 9 Half measures are had noywhere; much more so in an institution, anique in India, a Teaching University

THE DOMINATION OF CALCUTTA IDEALS.

Throughout the scheme, the domination of the ideals of the Calcutta University is

The Calcutta Matricolation perceptible certificate will be accepted as the passport of edmission to the Dacca University. This is the most unintelligible pert of the programme. The Culcutta Mutriculation is the most upestisfactory test in Iedia, because of the vast number of ceedidates that apply for the examination; aed if any University can arrange for an ideal method of Matricolation, it is a localized University like the Dacea one and not one like the Calcutta or Madrass whose High schools and colleges are scattered over a vast province; yet the Dacca Univercity proposes to hand over to Calcotta ite rights of matriculating its students. A similar domination of Calcutta is perceptible all along the part of the coheme dealing with the conrect of studies and examinations. In only one important point will the Dacoa University studies differ from the Colcutta ones and that is, In the provision for Honours studies in one subject, as in Madras, Another little speciality of Dacca will be that students of Arabic will be taught to converse in that language. This is rather curious. The Arabic of books is the language of Muhammad crystallized. Modern Arabic, that which is anoken to-day is so widely separated from that of the Ouran by twelve centuries of phonetic and semantic change that it is almost a new lauguage : it is difficult to guess what earthly porpose is served in getting pupils to converse in this antique Arabic ; why not train Hindu hove to converse is Vedic? Or is this another cop to demos? We have dealt only with the defects of the acheme; all the same, we welcome it, for it is the first attempt, though a haltieg one, to organize a Teaching Univereity in Iedia. We hope, ere long, that every large city will have our for itself.

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VI. ON THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS.*

(Continued from page 19, Vol. XIX).

DECIMALIZATION OF ENGLISH MONEY. (Continued.)

IN the last erticle I explained the process of decimalizing English money. The iuvarse process is also impurtant.

If the decimel be given to 3 places; to convert £345-678 to £, s., d. The greatest possible number of 'fives' in the number formed by the first two places givee the number of abillings; the student at once gets £345, 13s; then we have left '028. Since the number forming the 2nd and 3rd pisces is greater than 21, the given decimel fraction given 27q. for trial and since . , the quantity neglected, is less than t, the answer is £345, 13s. 61d. To convert £3:496 to £, s., d. As before £3.45 gives £3, 9a. We have £-046 left which gives 45q. for trial but the quantity neglected, i.e., ?! is greater than half, therefore the approximate answer should be £3, 9s., 11d.

If the decimal be given to 4 places or more; to convert £345.6789. As before we have £345, 13s., leaving £ 0289 and 27q. will give £-0281 and the difference is greater than £ 0005, i.a., 1 7., so the answer must be £345, 13s. 7d. From this we eee that if the 4th place calculated falls short of or exceeds the 4th place given by 5 or a greater unmber, we should increase or decreese the soswer by 1q. Letus consider another example : £3.4963. First we have £3, 9s, and £ 0463 gives 45q, for trial and 45q. gives £ 04687 ... which exceeds the quantity given, by £0005; hence the apawer is £3. 9s. 11d.

^{*} The right of publishing these articles is resurved.

From these we arrive of the following working rule -

Wheo the decimal is given in 3 places which the number formed by the 1st two places hy 5, the quotient gives the number of shillings, then consider the number formed by the remander to the 2od place and, the number to the 3rd places as so many farthings and subtract 1g for every 24 and one for 12 and more of the remander.

Whoo the decimal is given to 4 places Write down £, s, consider the number formed with the remainder to the 2nd place and the number in the 3rd place as so many farly ings subtract one if the number is 24 or greater than 24 and 2 if it is 48 or over, then calculate the 4th digit according to the rule. If this is less or greater than the given 4th place by 5 or over, increase or decrease the number of farthings by one

E G, £7 8952

£7, 17s, 45 — 1, 44, 44 \$\frac{1}{2}\$ 45\frac{1}{2}\$, 458, calcolated resolt exceeds given quantity by £ 0006 heace the answer is £7, 17s, 10\frac{1}{2}d

This ioverse process may be extended to find the number of farthings bence the number of paces in a given amount in \mathcal{E}_s , s, d cao be decimalized, then we have to multiply the result by 1000—40 to get the number of farthings, s, s, we remove the decimal point \tilde{s} places to the right, and shiftest from the 30 times the original number [Begin with the 37 decimal place the molliplication by 4 and subtract from the 2nd decimal place in the prodoct by 1000, but multiplication and subtractions heavy done in one process.] Thus we get the number of feethings and the number of peech only in the product of peech of the subtraction of process of the number of peech graphs.

by 4 It is to be coted that it is necessary to carry the decimalization to 5 places

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E G, to reduce £35, 17s 11d to farthings and bence to pence

DECIMALIZATION OF INDIAN MONEY

Of central Indiao moosy is not so easy to decimalize as English moosy The following process of decimalization I have been following to my classes and have foodd in generally successful First to decimalize

Now for 1 soos, 3 anoss, stc We kow that 1 anoa - Re ½ - Re 0925 8 acces that 2 anoa - Re ½ - Re 0925 8 acces - Re ½×3 Ao easy way of making hoys reduce this will he (8×½ Ra) = (8×10 as) - (10 Re) = 1870 Re 8×½ most be also reduced by our Indiso boys to 1½ + ½ = 1½ and (Re 3×½) - Re 11875 5 milarly 5

The reductions give practice in both the methode The 'acona' method finds favor with our modern buys, it may be surprising to many teachers when I tell them that on boys of the VI Form finds it difficult to moltiply the fraction # mentally by a nomber of 2 digits such as 13, 15, etc. The class should be well drilled to the cooversion of sunas into decimals of a ropes after the boys have

grasped the process of reduction. They chould become thorooghly familiar with the figores. The boys shoold know that with regard to eighthe 25 follows 1 and 6, 75 follows 3 and 8 and that with regard to sixtecoths, 875 follows 1 and 6; 125, 3 and 8; 625, 0 and 5; 375, 4 and 9. At feast familiarity with the eighths should be thorough with oor Indian boys desling with Indian money. Such answers as 625, 675 should be considered absord.

Then to decimalize pies. Now if the number of pies is multiplied by 5 then each until the multiplied by 5 then each until this mumber is 1/2 of a ropes and bears the same ratio to it as a farthing does to a poned, and the rule for the decimalization of English money applies, i.a., we multiply the number of pies by 5, mustifier the product as so many farthings and express it as the decimal of a powed and the same decimal fraction expresses the given number of pies as the decimal of a rupes.

E. G. to decimalize 7 pies. * 7 x 5, 33 ; Re. *0351; Re. *0364.

To decimelize 91 pies.

$$9\frac{1}{2} \times 5$$
, $47\frac{1}{2}$; Re. $047\frac{47\frac{1}{2}}{24}$;
= Re. 0485

To decimelize Re. 75, 13 as. 101 piec.

Rs. 75:8125 (-130 es., '81)

-0545 (-0521 521)

The inverse process of reducing a given decimal of a rapec to Rs., as., ps. is somewhat

difficult. The difficulty lies in taking away from the decimals the nortion equal to the number of agons. The following hints may supply an essy way to find out the number of annas. If the 1st digit is, say 8, then 8125 corresponding to 13 as. most be subtracted. At the sight of 8, 125 must follow from Ismiliarity with the figores, and 13 will be engrested from the fact that 8 x 16 = 128 and the next multiple of 10 is 130, hence 13. Next suppose the first digit is 6, the decimal to be anbiracted is either *625 or *6875 and the annas corresponding are 10 or 11 since 6×16 =96, and the moltiples of 10 may be 100 or 110. The remainder after subtraction is to be treated in the same way as the remainder, after finding the comber of shillings, is treated in the case of Eoglish money, only we divide by 5 to find the number of pies. A far examples will make this clear.

To redoce Rs. 37-476 to Rs., as., ps.

To redoce Rs. 4.9286 to Rs, as, ps.

To find correct to a pie the divideod on Rs. 1567, 14 as. 6 ps. at 9 as. 4} ps. in the rupee.

A book seller sends for books worth £17, 18a 9d. He is allowed a discount of 333 %. The expesses amonet to 10 % of the gross cost price. What should be pay in Indian mocey for the books if 1 Re = 1s 44d.?

.. The est C P. ie leduse monay
= Rs \frac{13.56042}{067708}
2002779

= Rs. 200, 4 st 5 ps.

The leverse process may be extended to reduce a givee amount le Rs, as, ps to piea. We proceed as le the case of English money but divide by 5 to get the cumber of pies.

In the next article I shall deel with Decimalization of English weights and Indian weights

(To be continued)

S. Chinnagami Aivan.

CAN TEACHERS GUARD YOUTHS AGAINST EVIL INFLUENCES!

By Keisena Dayaenaya.

"Lat no reckless language pass unchallenged Find out what your youths are thinking of, guard them against evil influences and lead them to think right. Fearlessly and storely condomn the written and the apolem word which may direct others unto the path which leads to crime"—II E LOSD STRENMAN, 7th January 1913

THESE are the latest nitorances of H E Lord Sydeeham in which be bas exhorted the peblic to guard their youths against "evil infloences". And co one will deny that amneget the goardises of youth a squint "evil sefectores," teachers as a class coonty—or ceght to conny—a very prominent and respectable position. It may not be, amiss therefore, to consider its what manner and to what cattest teachers can geard youth agency evil influence and it what meened to what extent they are actually allowed to do so under the how anisting disciplinery preclations and circulars.

The peblic (uncluding teachers of coerse) are exhorted "fearlessly and sterely (to) condemn the written and the apokee word which may direct others (youths under their charge sepecually) into the path which leads to crime." And doublies, if teachers had no lear of losing their bread for following this advice in the class room, they would heartily endeavour to the best of their abilities to dispel eril rises from the head of youths, whenever occasion arose, not only it the

⁸⁴⁰¹⁶⁵ pies

* Since commission silowed is subtractive, we take the nonghi complement of a third of 17 6375

class-room but wherever they should see them reading or listening to the word which may direct them into the path which leads them to crime. But slas! Disciplinary regulations and circulars have made them powerless to do their duty in this direction! They are not to attend political meetings; they are not to read newspapers which adversely criticise and miarepresent the general policy and partionly administrative measures of Government: above all they are not to speak ou political questions or discuss with boys or inform them shout current political affairs, in the class room or out of it. In a word, they are expected to be quite ionocent and ignorant of the very words-apoken and written-which may direct youths into the nath which leads to crime. How then are they to guard them against evil infinences, and where, if not in the class-soon, are they to lead them to think right? If they themselves do not know what evil ideas, what evil influences, hoys have in their minds, how are they to combat the situation? For he it remembered, that tembers, whether in Government schools or recognised schools under private management, are ignorant. pay, they are ordered to keep themselves ignorant, shout what is written by the prese or spoken in the public on political affairs, whereas youths, whom they are expected to lead to think right, are not infrequently reading or listening to misrepresentations of Government policy and measures. in their homes, in public places, in the streets, and elsewhere. They are not to attend political meetings; how are they to kunw if any of their boys attend them? Thus it happens that although they have the ardent desire to guard youths against evil infinences. the very disciplinary restrictions which Gov-. ernment have thought it wise to impose on them, prevent them from following the advice

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embodied in Lord Sydenham'e latest exhortation quoted shove. Do Government think that teachers, who have received higher education and have chosen to spend their life in an'ill-paid profession, in preference to better-paying professions, are so had, so disloyal, and intellectually and morally so ohtnse that they will easily fall victims to the false logic of the anti-Government papers or to the specious arguments of an incipnating and intrigning apeaker in a political meeting? If not, would it not be a wiser policy to take them into confidence, to look upon them as loyal gnardisne of youthe against evil influences and to give them the liberty of reading papers and listening to speeches which apread discontent and disaffection, in order that they might be better informed as to the nature of the evil infinences from which they may, from time to time, gnard their hoys, and lead them to think right? To expect temphere to follow the advice given shove without giving them such liberty, ie to expect physicians to deal with patients about the nature of whose ailments these physicians are strictly ordered to keep themselves quite ignorant.

It often happene that a boy, who has read or heard something written or eaid against the actions of Government, asks the teacher a question which often puzzles him, (for the boy himself is too young to think of asking such a question) ; and very aften the teacher is full of judicoation against the writer or epeaker of the words which have prompted the boy to nek the question ; always, the teacher feels on anch occasione an irrepressible desire to dwell on the question and to set the boy right. But it is a sin to talk on political matters! So the poor teacher, chafing onder restrictious which defeat their nwn end, has (1) to

order the hoy to at down, remain quiet, and never to ask such questions; (2) or to tell him that the writer or speaker who prompted him to ask the question was weak in the apper-story and bence archiable; (3) or to ignore him allogether and proceed with the lesson, or (4) to say that boys ought not to hother themselves with snoty cought not

In the first case the hoy looks upon the teacher as a "tyrant and no gentleman," surely it is not desirable that thoy a should have such an impression about their master. In the second case, the hoy will be first from being convinced that his master's spinion is correct. In the third case, the hoy will know the clean under the impression that his master is perhaps of the same opinion as the writer or speaker who prompted him to ask him the department, for silence shows consent, and the boy knows that his master is forhidden to talk in political matters. In the list case also, the boy will have a similar impression

Enough has been said to indicate how meastifactory is the situation into which teachers, the guardians of youths (for six homes at least out of every twenty four), have hear left by some of the disciplinary orders of Government. Let ne now briefly indicate how this stination requires to he altered

The knowledge that many teachers possess about the sdministrative machinery and the political problems of the country, is often not commensariate with the knowledge of these who vehicently attack Government's policy and measures every now and then If they had that knowledge, they might perhaps be better, table to answer any questions based on adverse criterism

(i) The Government should, therefore, amply to school-libraries, such official papers, hine-hooks, reports and other publications as are amplied to newspaper editors There should also be a selection of books bearing

nu the administration of India under the pre-British and British periods and also books abowing how India has steadily prospered under the fostering care of England,

(a) Teschers should not be disallowed from attending political meetings, in order that they may have an idea of the views expressed in anch meetings.—views which no Government measures can prevent from baing disacessed in the homms, in streets, and in other public places, and which are sure to reach the ear of boys in some place or other.

(iii) They should have the hierty of dis cassing in the class room, any current political question or questions shout which wrong and permicions views are likely to be expressed in the press or from the platform

In a word, teachers should be taken into confidence as loyal supporters and faithful adherents of the British supremacy in India. and be treated as such, instead of being looked npon with great anspicion, as they appear to be, indging from the nature of the restrictions imposed on them Of conrse, let the Government admit into its service only anch men as can be trusted . let it also require the managers of recognised private achools to appoint none but trustworthy persons on their staff, but once trusted, let teachers have that liberty which alone can mushle them to guard youths against evil influences, as long as thern is no reason to enspect that they are misusing or phusing the liberty granted to them

${\tt S.S.L.C.} \; \textbf{EXAMINATION-GROUP C: PHYSICS-DETAILED SYLLABUS}.$

Headings	Subject in detail.	Books of reference, apparatus, etc.
Measurements—Length.	1. Mesning of a nuit, Bri isb sud metric units, multiples and sub-multiples, use of the foot and dividers, to make the foot and dividers, for measuring for scale, cannot be directly applied. 2. Loroth all curves, measured with a firstlike material, as a piece of string and with dividers, by means of a shock buring a most scarabled on the rim. 3. Diameters of spheres and cylinders, bellow and solid with calipres, with meter rule and blicks of wood. Internel dismeter with a wedge of curve upper. 4. Relation between the circumference and dismeter of a circle, the number of times the dismeter is consumed in the circumference, calculation of either in green cases.	Gourse in Practic Physics. (2) Introduction to Physics and Chemistry Perkin and Leas. (3) Elementary Pract cal Physics; Weston. (4) Gregory and Hadle: (5) A class text-book in Physics (6) First Yesr's Court in Practical Physics, b
	5. Comparison between British and metric units, conversion of units.	
Ārea,	Instruments used in exact measurements year, but consistency outsides and its may seem gauge; description of the use; seem gauge; description of the seem gauge; description of the seem gauge description of the seem g	
Volume	1. Messurement tavolving three dimensions units of volume; exumination of some regular colors calculating their volume, 14. acube, prism. box. of inder and come, application of formula and verification by displacement.	
	Comparing (1) the volume of a cube and a cone baying the same beight; (2) the volume of a priam and a pyramid; graph connecting British and metric units of length, area and volume.	
	2 Capacity of a bollow vessel: units of capacity measuring jors and flasks; Papettes, bureites, their uwas; advantage of using Usrow-necked vessels for measuring capacity; precautions to be taken in reading them	
	3 Finding the volume of liquids and irregular solids with graduated ressels.	
	4 Calibration of a long test in u cm. for use in practical classes; usu of a float in the burette.	
Measurement of mass.	The halence; description; buw to use it and pre- ceptions to be taken in using it; meaning of mass	

Headings	Subject 10 detail	Booke of reference, apparatus, etc
	and wought simply explained, use of spring balance for comparing weights (indirectly mais)	
Devoity.	1 Of liquids To find the weight of 100 cc of water at a temp of the room, to find the weight of 100 cc of brine, copper applicas solition, etc. Equal volumes of answer of different riquids, occupy different relative discass discard descriptions of relative density, absolute donaty Difference between absolute and relative Special gravity bottles and description is to say, pre- centions to be taken in its use. In fluence of tem perstance or relative density.	
	11 Of noilds From mess and volume of soluble and machable paraders	
Hydrostetics	I The idea of pressure—the pressure of a liquid and the containing resert the weights of liquids compared, the definition of pressure of a liquid stapent Increase of pressure with the beight of a liquid Practical application of the principle in tank brade.	(1) Gregory & Simmone Practical Physics, Vol I (2) Gregory & Hadley . "A Class Text book of Physics'
	2 Pressure in the interior of a liquid-showed with an open cylinder, as and a string, operard throat, downward and admarata, a simple mane-of a liquid abover with a U tiche of different arms (the bend basing filled with inserting?) Pressure in several directions at the same depth (shorm with a V shaped (nbb), conclision, all kinds of pressures and opth (short with a depth).	
	3 Resultant throat on immerced bodies—the whole throat (total pressure) on a body—the tendency of several forces composing st—tha result ant pressure on the upward direction	
	4. Effect of the resultant apward thrust-body wests (appears less in the broad than an ar Tha Priociple of Archimedes deduced Experts to prove the above (socket and cylindar expr.) Application of the principle for flading the ap gr. of solids and liquids	
	5 Flataton—when the approxi threat as greater than the weight of the body placed in the legid the body flata. The principle of I tation is, weight of the firsting body—weight of the diplaced legid of Experimental verification of the ornociple, Laws of flatation, and the primeigh of flatation to find the ap gravity of floating bodies (for example a wooden cylinder).	
	6 Hydrometers—simple ones, construction and use; Nicholson's Hydrometer, description, now used for finding the sp. gr. of solids and liquids	

Headings.	Sabject in detail.	Bocks of reference apparatus, etc.
Gages.	I. Their characteristics; pressure of a gas; a U-tube with mercury to measure pressure. Liquida in a U tube, calculation of densities of liquida that do not mix with a U tube (balancing columns); of liquida that mix with Here's apparatus.	
	2. The pressure of the stonephera; to show that are carets pressure—to make a larpomater-record of daily observations; variations of atmospheric pressure; variations with skitode; variation every day; graphical representation of variations to pressure. The standard pressure.	
	3. Density of the sir near the sarth varies from time to time, so winds caused; calculation of pressure of air on f sq. cm. in grams.	
	4. Gasea perfectly stastic. Density and pressure increase when gases are compressed. They diminish when gases capand Bylas is w. Experimental varification for pressures [1] above one atmosphere, [2] less then one atmosphere. Graphical representation of Boyle's law.	
	5. Ralloons; how they work; principle of flota- tion applied. 6. Pamps—air pump; meter pump; force pump; fire engine; use of air chambers; syphon; syrings.	
Measurement of time and Fendulum.	Modes of measuring time (anod glass, anodels), unit of times the sideral day; the soler safe, unit of times the sideral day; the soler safe, the production of the safe safe safe safe safe safe safe saf	

(To be continued).

B. NARAYANASWAMI.

THE STUDY OF FOSSILS

REMOVE the increstations of the earth and von can see a valuable tressum hidden underneath it in the form of a book the leaves of which are represented by the dif ferent strate and the hold characters therein -the keep sake of the past history of the world_are the well known relice of animale and plants, the owners of which ones flourished on the face of the earth and most of them are at present soutched away from us by the hand of time Mother nature, not being unmindful of this catastrophe, has with her slow and steady course preserved those organisms carefully and those sheets will be unfurled only to those who have whatted their desire for a keen and gennine interest in attaining true knowledge

The remains of animals and plants either in the form of solual nigonisms or as casta and moulds, such as shells and impressions left hebind as foot prints, burrows of worms, insects, sto, are known as fossile. The term comprises any trace of form or stricture of organisms, sometimes with all the deliescy of form entomhed in different layers of the stratified rock.

The solid crust of the serth, having been formed at ancoessive periods by the disposition of rocks, can be divided into geneous and sedimentary rocks. Igneous rocks are produced by the interest band of the earth and are mostly nestratified, as in granta and hasalt. Organio remsios are not unit with in these rocks. Sedimentary rocks, otherwise known as stratified or aquatio rocks, ara formed by the debris of the praviously saisting rocks, carried by streams and rivers and deposited in takes and sess. The chalk public of the praviously saisting rocks, carried by streams and rivers and deposited in takes and sess. The chalk public of Edgland and the Adapps alshe of the

Madras Presidency are examples to these They really represent the extanomis of animals and plants which formerly aristed on the surface of the earth. These rocks can be divided not of flerent groups or epochs, such group having fossile peculiar to itself Geologiats have divided these rocks into three groups, each group representing a period of mixtown duration. These groups are again and-divided into systems of lesser periods of some epocies, which no longer axist, but they belong to the primary sub divisions of normals and vaccfables which are known to as

When a species has once become extinct, it never re appears. The recept strats contain the ekulatons of animals, which do not differ greatly from the existing ones. The lowest stratified rocks are the oldest formations The older the formations, the greeter will be the differences between the fossile thay contain and the fiving animals and plants. They contain feasile which are so different in character that we cannot readily say to which of the existing orders they really belong Such creatures as aquatic rentiles as prest as whales, hirds with teeth, soms mollnses. crustaceans and pieces, exhibit such great differences that we cannot without difficulty classify them Such evidences tend to show that there is a direct continuity of succession of the forms of life in time. It is also possible in certain cases to trace the history of hving forms to the extinct ones

The chance of preservation of all animals and plants is not this same. The marice creatures takes slead in this. They are in a more favoured position and are likely to be preserved in numbers, for the fine particles of sand, and end other sediments are ans-

pended in water and the organisms that happen to die and drop to the bottom arm asfely preserved among these deposits. In auch cases the hard parts sither in the form of endo-skeletons or exc-skeletons stand a better chanca of preservation than the soft parts. The chitinons coverings of crabs, prawns, the skeletous of corals, the shells of mollusce, the scales of fishes, calcareous plates of cuttle-fishes, and the bones and teeth of animals are generally met with in the sedimentary strata with little or on change, for order that animals and plants might ba preserved, they must possess a skeleton of soms kind or other, inasmuch as the soft parts will soon be decomposed and may not leave any trace of their existence. We cannot axpeot a jelly-fish to be preserved as such. nuless it be its fossil in the form of un imprint. The second requisite is that the arganisms must be covered ap with some deposit. All marine creatures do not stand the same chance of preservation. Samatimes It so happens that the whole organism decomposes for want of asdiments in the water, A large portion of the vast expanse is devoid of the sediments. The immense area of the ncean shows a bright blue tint and this beencake its purity. If an arganism is left on the surface of the earth, exposing to the nir, the action of the san, wind and rain, we sea practically that exidation sets in and the whola thing is crumbled down to powder. Even the remains of animals which are inbedded either in sand or gravel will be dissolved by the percolation of water during the upheaval of certain regions of the earth. In the tertiary daposits bones, shells and hard parts of crustaces and other creatures are found in their natural state without undergoing any modification.

The bardening of soft moist clay into freedomes and the like agencies has bequeathed to as the font-prints of animals and has thrown light on the external conditions of those past days. The impressions left behind by tortoises' feet and the fact-steps of lizards, any, the impressions mads by some shower, have been miraculandly preserved to as by agres.

Fossilization depends greatly upon the composition of the organism and the unterial in which it is embedded. There are different types of fossils and the leading once shall be cited below:

(a) The organism is preserved as a whole. In this the akeleton as well as the delicate parts anffer very little change. It must be understood that if an aminal is kept free from the action of the nir by a thick packing of ice and other impermeable anbetances, the animal will not undergo putrifaction and for agen it can be kept anchanged. For this knowledge we are to a great extent ladsbied to Peter Simon Pallas, who in his journey through Siberia in the latter helf of the sighteenth century found out the entire specimens of extinct unimals, such as the woolly rbinoceroses and mammoth. Even pools have been struck with these wonders of Naturn and wa have seen Lord Tennyson barping on these themes :

" Or like an old-world mammoth bulk'd in ice Nat to be molten out."

Flien buried in cartain resinous products of vegetables, known as amber, have also been faund.

(b) The skeletons of certain animals are preserved almost nuchanged. This form of the fassil has its skeleton in its original form. Somatimes thay lose their organic matter and are replaced by lims, making them little? beavier The fossils in the recent formations and the skeletons of the extinct animals differ in baving the latter, lighter end more morens.

- (c) The original substance becomes carbon ised. The chitinous coverings of some somals as well as plants having bean decomposed their oxygen and nitrogen are liberated and thus the percentage of carbon is increased Similar action takes place in the conversion of ancient trees and plants into coal
- (d) A cast and a mould may be foood In this type only the external form is preserved, the internal atractures and the priginal aphstances are entirely removed Manida are marks or impressions left be hind by primals or plants, whereas the cast of an animal is the representation of the animal in stones or mode. These kinds of fossils are by far ahundant in the porous atrata When the organism, say, a molloso is spreagoded by a mineral deposit, it takes a monld of the shell, and the interior organism decays and the space is filled up by the same mineral material Water containing carbon diox de percolates through and the abelt is dissolved and carried out as hicarbonate of lime, so that a mould of the external and internal forms of the shell is formed Sometimes it so happens that as the abell is dis solved and carried away by the percolation of water some other mineral substances get in and occupy their place. In such cares a cast of the shell is formed It may alan bappen that in some instances both a cast and a monld ere produced Beautiful instances of this kind of fussilization are seen to tha molluscan fossils of the secondary rocks of Portland The imprinte, the foot prints of animals and the impressions left behind by

some soft bodied animals as jelly fishes can be included under the type of moulds

(e) Foesilization is also effected by some molecular displacement, when it is known as petrifaction Specimens of this sort are met with noly very rarely The petrified fossils show all the delicacy of their structure these fossils the animals and plants have their organic matter replaced molecule by molecula by mineral substances The process goes oo so slowly and wonderfully that even the minute parts are nicely preserved and no change occurs to the structura of the organism Petrifaction occurs either by silic fication (hy the agency of silica) or by calcification (by the agency of carbonate of lima) Even tha cells and vessals of certain wood have been fossilized in a similar way

In order that we may have a clear idea of the particular system or systems of rocks to when these fossils can be met with, the study of the distribution of sormals and plants in quite resparable from the study of fossils. The fanns of a country is to a large extent independent of the climate and we also see that the annuals of adjuent constries vary to a considerable degree. It is more advisable to study the distribution of the present facons of the world from a roog goographical point than from a mera geographical point

To study the distribution of the past fanua and flora of the world, we shall transport corrective to the lowest layer of the stratified rocks and examine the records left to us by agree and ascend stratum after stratum, surveying that traces of the animals and plants, which peopled the certh's anriace at anch remain periods. In the lowest rocks where we find the traces of the abilitation of animals, are find the traces of the abilitation of animals,

we meet with the remsius of numerous invertebrates. Later up we discover finhes. and amphibia and these are followed by rentiles, which precede the orestium of birds and mammals.

The fossiliferons rocks can be divided into three greet distinct geulogical spechs.

The primary epuch, the oldest formation, contains undonlited remains of land-plents. We find there the traces of dense forests, the stems of some trees towering a height of 80 to 100 feet. In this epoch the vegetables predominate and it is here that we have the first remains of land-plants. The countless tons of cosl, that are being excavated from under the earth is supposed to be the remains of those autique forests. A considerable number of millipades and accomions of varione sizes have been preserved in these rocks. Besides there, land-sualls, insects of different types, size and colours, corsis, sea-lilies, molloses and ismp-shells are present. The earliest urganisms possessing nutochurd occur in the middle of this erock and none of these has been found to possess a lower jaw ur true paired limbs. The remains of typical fishes, their oldest known teeth, spiner, etc., also appear here, but later un they become abandent.

In the secondary epoch the scene rapidly changes, the thick and promiscupps growth of plente vanishee and the 'levinthaus' eppear.. Probably this age has appplied mythology with the description of wild monsters and enimals, whose habitate we had not even dreemt of. The nost himself is extensished to find.

" Dragons of the prime,

That tars each other in their slime." The lowest streta in this period show the

presence of e few reptiles, but they domiusts later nn. This age has deservedly been called the reptilian age. "The reptiles astonish us by their number, their gigautio size and their nuwonted form ; antique and incomprehensible inhabitents of the globs reproduced in all their parts to our wondering eyes by the genius of a Cuvier and an Owen."

The enoch denotes the existence of a throng of feightfol ligards. In 1821 Charles Koneg. the first keeper of the minerological collection in the British Museum, described 'Ichthensaurus as a veritable fish-lizerd. This rentile is supposed to have been the terror of the seas. These animals sometimes attained a length of about thirty-three feet-Their organisation is one of the most complex of all organisms. Their vertehre resemble those of a fish, while their fins are like those of a dolphin. Their isws ers armed with strong testh, which resemble those of a crocodile. They have a pair of eves the mechanism of which is quite ooprecedented. The optio lube roughly represents the flower of a chryssothemum and is anmetimes as large as a man's head. With the help of this pair of magnificent eyes, the animal can find out its pray at the prestest as well as the shortest distances. The structure of their intestinal takes has been like an Archimedeen screw and they lived upon fishes and necessionally their own epecies.

The remains of such dreedful animals are ahundant in this period. The presence of a munetrous newt, Labyrinthodon, e most extraordinary presture of the eige of an or with teeth "as the windings of a meze," is not the less dreadful. The Massagnus, an immense marine lizerd, atteining a considerable length of more than 75 feet has been discovered by W. Daniel C'ouyheare in 1822 I G. A. Mantell in 1843 annonneed the discovery of Ignanodon, an herbworens dinceenr. This animel aided by ite power fol teil walked on its hind legs. The total length of the enimal is more than thirty feet long and the head is about fourteen feet from the ground A gigantic American dinceanr hes been described as the happy possessor of three powerful horns

The impressions of three-toed feet have been discovered Some geologists consider that these indicate the primary existence of hirds. The oldest known birds belonging to the genne, archmopteryx, flourished in this period. They first appeared in the upper strate of this system and retained conspictions characters even in the beginning of the tertiary enous had at lists disappeared.

A few mammals also appeared for the first time. They resembled the ponched animals that are found at present in Australia.

The vegetation of this period closely resembles the present flora of Aostraha M. L. Figurer remarks that "the state of vegetation in the cretaceous period might be looked upon as the vestibule of the vegeta tion of our day" A good many dicots have also growe in the closing period of this speech

With the close of the spoch of the terrible creatures, we enter on a new era in which penceful causals predominate. The fecundity of the distribution of riviparoos animals of the tertiery epoch has given it the usme of the epoch of menumals Monkeys, hat genets and meriods have teken the place of the ferocious gients of the last epoch. Wheles, a menumal with neked skin appeared for the first time in the see. The gyptum

quarries of Peris abound in the fossils of Palmotherie and Anoplotheria, a kind of thick skinned animals. The former resembled the tapirs and according to Cavier, they lived in berds on the hanks of rivers and lakes : and the latter could be compared to the otter, but were little larger and they dived with ease and cought for the roots and swollen stems. which formed their food Anoplotherium discovered by Chvier has also been proved to be intermediate between the pig family and the rominants, which at the present day heve distroot distinguishing characteristics Palson theram connects together the apparently different animals as the borse, the tepir and the rhinoceros. This species of animals was not bappy enough to survive the enoch

This age reveals also to us the existence of Dinotheris, a terrestrial memmal, resembling our elephant in shape, but lerger in size

Mastodon, which bas excited in us so much interest and corrosity, was a worthy enecimen restored to us from " time's tyrannio olaim" It was known as " the elephant of Ohio," for at had the resemblence of an elephant and was discovered in numbers on the hanks of the river of Ohio | They are found in Europe and North America A perfect specimen in standing upright posture was obtained in the State Massnors in 1840, and this et present adorne the paleontological section of the British Museum They were found imbedded m eandy deposits with their stomachs loaded with food just then taken up and haried at the spots by some sudden floods and the deposition of alluvial mud It has been proved herond a doubt that their food consisted of harbs and small branches of trees

Owen remerks that the frightful Sivatherium—the name was derived from the God, Sirs-found in India is one of the most gigantic and extreordinary of the extinct races known to ne." This was only a stag, es bage es en elephant, endowed with four horns.

Ancient molluscs have perished and new ones appeared instead. Only very few reptiles are met with in this region.

The great similarity in the flora of this epoch to the present day is evidenced by the presence of oaks, clus and various other contemporary geners. "Looked at as even in Europe," says M. A. Bronguiari, a learned botanist "this vecetation displays in particular a great analogy with the present flora of the temporate regions of the northern bemisphere."

From the earliest times two theories bad been in existence. Few people rightly conjestured that the fossils were parts of some living organism. The mass of the people could not go along the same line. Fine skeletons of saimals even with their thin bones, shells with their ancient colourings and other marks, hirds with their beantiful feathers, insects imbedded in cines with their transparent wings, leaves with their network of veins, woods with all their delicate vessels could not convince the people that they were the faithful records of the past fanne and flora of the world. They even believed that there fossile occurred as a result of the 'plastic force' within the earth and considered them as the Sports of Nature. Medicoval people even went to the length of saving that they were 'the freaks of Nature.' This ides, lusus natura was held up to the sixteenth century.

The crust of the earth is subject to many convulsions and the Platonic force within disturbed its surface from time to time. As

a result of this, the fossiliterous rocks from the beds of the deep were brought up to the top and the portions fractured occupied the nesition of mountains.

It required the genius of Bernerd Palissy, the real founder inf geology, horn of poor circumstones with en abundant endowment of superior intellectual faculties, to dispel this superstitions belief from the minds of ancient people.

The skeletone of elephents and mestodons were considered by the snoients as the feither terms into the famous warriors of old. A lerge knee-cap of an elephent was imagined by some to have belonged to Ajar. The remains of some mammals found in Sicily were worshipped by many people in the firm conviction that they belonged to Polyphemss. The conception of the existence of this valuable treasure bidden undernesth the earth was so meagre that many persons fabricated unietelligent stories and mythologies according to their turn of mind.

For the inception of the science, we can go as far as three centuries and more before the Christian Era. Among the Greek, Aristold, X-nophon and Strube knew the existence of lovelle and they made a crude across of their wm. In the sixteenth and seventeenth centuries, the pioneers of aniones, tried to throw some light upon this, but the heary stembling block of religion and tradition stood in their way.

The study of these 'medale of Creationa' was again taken up in right cereat only in the beginning of the nineteenth century. J.B. Lamark (1744-1829) was the founder of invertebrate pelicentology. The marrelloss discoveries and the remarkable researches of Unvier (1769-1832), but founder of vertebrate pelicentology. The grand of the progress in the proposal polyment of the progress in the second of the progress in the secon

science Charles Darwin lubricated the wheels of action by the expounding of his new theory. His theory on 'descent' atimulat ed the people to search, to fortify and if necessary to verify this cowly avowed theory Scientists in all continents eogaged themselvas to finding oot some naw specimena or other so that they might grapple with Darwin's theory of avolution In the first half of thm nineteeoth centory thu extinct reptiles of the world were brought to light They wure so varied and different in structure that they required a great accentrat to classify them Attempts by many did not prove fruitful notil the great acatemist and the direct successor of Covier appeared on the stage in the person of Sir Richard Owan (1804-1892) Hn re arranged and classified them on his own modal The master works of Leidly. unother adherent of Covier, stirred the soigntific world from America "In discovery the theatre of interest shifted from continent to continent often in a sensational manner After a long pariod of gradual revelation of the ancient life of Eoropa, extending east ward to Greece, Esstern Asia, and to Ans tralia, attention became cootred on North America, especially oo rocky moontain ex ploration New and unheared of orders of amphibians, raptiles and mammals came to the sorface of knowledge revolutions og thought, demonstrating the avolution theory and solving same of the most important problems of descent"

The advancement of the science of animals was effected chiefly by the ardent andeavour in the research of fossils Evalution from the lowest in the by ghest can be discerned if all the animals past and present have heen placed before os On account of various reasons the record of the soccession in this is very imperfect. The only resource on which

wn can rely and which can supply us with somn missing links is the fossils. Hence we find the extreme use of palmontology.

South America and Northern Africa give in the descent of elephants. In Iodia thera were eleven species of elephants, not of which only one has survived to the present day

The evolution of hird was causing great anxinty in the mind of some scient sts The notewortly discovery of birds of the genos archaoptervx in Eorope and besperorois in North America by Prof W A Marah, bas been a wonderful booo to thu supporters of the theory The bird is of the size of a rook It bears a great resemblance to the reptiles and is the possessor of a number of teeth nunsual to birds Its I zard like tail is also long and monted, each joint possessing a pair of quill feathers The wings of this bird have not been specialized as birds Thia animal is supposed to be a connecting link between the birds and the reptiles almost complete specimen of this animal was discovered in 1877 and it has been preserved in the Barlio Natural History Museum has a skell containing teeth and axhibits three digits in the fore limb all ending with claws The British Moseom also possesses a fairly good skeleton of this curinos hird. but it is unfurtonately wanting in the skoll

By the help of the study of fossis we can tracu the life history of animals and plants with certainty Tho modifications of o certain organ through different strata can be traced successfully. We find a good illustration of this not the present hirms. The earliest horse had five toce and this was followed by fewer toce until it diminished to the present furm with a single toe, which we call the hoof.

Their grinders also exhibit similar striking features.

Geological records reveal to us that tha life-history of an individual is but a rapid and sometimes incomplete repetition of the history of its race. Ontogeny (evolution of the individual) is a recapitation, in ministure, of phylogeny (evoletian of the race). Evidence to this is well furnished by murphology and embryology. For example, a frog begins life as a single cell. This onicellate coopern undergoes a series al modifications, until at lest it assumes the form of a tadpole and enters the etage of a worm and thence a fish. This animal is afterwards metamorphised into the more highly organized being, the foor.

Fossils indieste the changes in the geography of the earth. The presence of terrestrisifossils in a strata, where marine orgenisms are found in abandance, leads us to infer that the land was not far off. Probably the animal that was grazing was deed and among the havoes done by sedder floods, plants most have been appropted and these were earried by currents to the sea to be buried there. The stumps of trees in position show the presence of land. Innumerable pieces of stones of various sizes, whose corners have been knocked off and are acattered over a particular region will certainly remind us of the existence of a river at a remnte period. Skeletons of littoral animals sometimes belo us to know the depth of the sea.

The climatic condition of the past ages can also be known from examining the remains of animals, and more expecially of plants. The fossils of a tropical region very classly resembles the cristing animals and vegetables. The same rule holds good in a cold country. The true nature of the climate of a region

cannot be judged by the existence of the fossils of neimsis alone. The mammoth, resembling an olephant, was found entembed in the deeper layers of Northern Siberia. From this we cannot infer that the place belouged to the tropical region. Analogies are niten-times dangerons. Mammoths were well adapted to live in cold climates. The main principle of the science of tossils is the study of adaptation. The comosion of mollates, characteristic of tropical and sub-tropical sease are even now found in Loedon city.

The fossils serve a useful purpose as the indicator of geological ebronology. Each system of rocks contains a particular species of animals and plants. It has been found that the latest formed atrata bays the organic remains, which closely resemble the existing organisms. The order of the apecession of formations has been effected, not by a sudden replacement of one set of animals and plants by another, bot by a slow and gradual process by means of which some of the older ones have perished and a few new ones have come into existence. This definite anceession is the same in all parts of the globe. The fossiliferous rocks of a certain spoch of Europe bears a close comparison to those in Asis, America and Africa. This is applicable net unly to epochs, but to each eneceeding series of rocks. Therefore this belps us to fix with accuracy the relative position of rock in the geographical formation. It also coable: us to understand that, although two stratt show come alight variations in their forms tions, they can be grouped under the same name and age, if they have the same fossi remains.

The study of fossils bas already supplied us with the knowledge of the traces of aulmals and plants, which are not flourishing on the sarface of the globs at present They formula ne with the missing links in tha chain of progress Fossis of animals also help us to discern whether they lived upon vegetables or other animals. If the edge of the teeth are pointed and concel in shape, they are known as cauma teeth and we meet with cannot feel be generally in caravrors. The stometh of the caravrors council is small. In herbrorines animals we meet with comparatively large stomache They also possess teeth, which are flat and rough outside. A combination of these two quelities indicates that the animal is omnivorons.

It may also be mentioned that some foreshe are supposed to possess medicanel properties. Ponchet mentions that "the bones of bears which were obtained from the cares of Francoins passed in Garmany for a sovereign antidote and were sold in all apothecares" shora as the remains of fablous unicores"

The fossils of creetures like ammonites ore used in many parts of India, as an object to worship They are known by the name Saligramam and can be obtained from the river Chutzk, a tributary of the Changes It has an oval shape and possesses a very sual hole. This interior space as well as this hole, which leads up to it, are the work of a tiny meature belonged to an extinct genus of mollines. The animal afterwards fields its way inside and nibilizes this new ahode as its larking place.

The fact that certain kinds of earth are used as untritive mesl may seem astounding The Negroes living in the forests of Carolina and Florids, the Ottomacs on the mouth of the Orinoco, and a few people setting on tha hanks of the Amezon, do feed upon a kind of clay at certain sessions of the year

Mureover, it is well known that an edible clay is a merketable commodity in Bolivira These clays have been examined and found to conseat of immerable fresh-water incorna I its evident from this that the valua of these sleys is done to the presence of these microscopic abells It has also been found that in times of dearth Laplanders substitute a kind of white numeral dust for cereal products in preparing hread Ratasie axamised this mail nuder microscope and found not to the astonishment of many that it contained about numbers of distances of the stonishment of many that it contained about numbers species of distances.

V KRISHNA MENON

THE TEACHER AS CRITIC AND

CRITICISED.* Mr Ramanathe lyer in opening his lactura remarked that when he was asked by the Score tary of the Association to deliver an address ba was wondering what to speak about when a young friend who had ventured upon some critimem, complained that criticism had its penalties. That made him think of critic am in general and of the relation of the teacher to criticism A great part of the work of a teacher was connected with cri tisiem. He had to enticise his pupile work. He had to assign marks for the various studies, and day by day they had to make a record of the progress made by a student to his studies. There had been felt a great deal of difficulty in assigning these marks and se to the exact estimate that could be formed as to the progress of the pupils, and this difficulty was one which had been great ly desturbing feachers in Madras in connection with the School Final Scheme. A great deal of criticism had been levalled at the question as to whather the estimats of pupils' work had really

^{*}The substance of a lecture delivered by Prof K. B. Ramanatha Iyer, M.A. B.L., L.T. of Pachalynppa College, under the surpless of the Teachers Association, Teachers College Sa dapet, with the How bis Mr. P. S. Styrawanti Alyer, O. S. L., O. E. f. in the cheft,

any real worth. It had been contended that it was merely an approximation that they arrived at. In some subjects it was easy to mark tha pupils' work eccording to the lecturer, and ha described bow the marking system was carried on in such subjects as methamatics, and in such sobjects where they had to judge the work actually done. It was difficult even there to cetimate whether the matter tanget in such cases had been properly assimilated, or whether it had been morely mechanically mamorisad. He enggested that in matters of composition and translation and kindred sobjects, they could arrive at a fair estimate of the work of the etudent by giving tham test papers on subjects which had not formed part of the immediate close work. If this were done to a few of the students in a class at a time, the teacher or besignaster would be able to strive at a correct estimate of the pupils' proficiency. Such a test would be much better than the matriculation test, the non-existence of which was lamented londly. It was not possible for a pupil to suswer such test papers by mere memory work and he thought that the feachers could be said to arrive at a fair estimate of the intellectual capacity of the pupils in this mapper. They could slee judge of the kind of moral training the pupil hed received because to be able to snewer such questions properly the student would have had to avoid the temptations of Idling and passing his time la other than serions atudy. The question of how the teacher was to gange the morel character of the pupil was often a nezzle to most of them. It was difficult in the High School with its forty emdents in a class and it was still more difficult in a college where classes were very much larger, compilmen 150 students being in one class. In the smaller classes the teacher had more opportunities of contact with his pupils, though even there it was a matter of considerable difficulty to come farm contact with all students. He had heard complaints from besdmasters that the justructions of Inspectors were difficult to carry out and that

these instructions tended towards a mere mechanical account of the work from day to day. If the residential aystem were extended to the bigh schoofs it would afford a better method of arriving at a decision regarding the pupils' moral qualities. At the present time there was very fittle upportunity of so doing. At the same time a teacher did have opportunities of atodying his pupils end their characters, and that should be of great aid to him should be focl tempted to state the field of experimental systeholor.

CRITICISM OF ECCCATIONAL AUMINISTRATION. .

ife would now deal with snother and a more ambitious kind of criticism. That was the criticism of the Educational Administration. They had to work nuder cortain evetems and they know where the defects were, and the more adventurous of them might venture to state those defects. He thought it should be a metter of duty with them to give fronk expression to their views. If the better informed with regard to these defects did not come forward, then the warre informed would do so and the complaints would be discredited. If there were freer criticism and more criticism there would not be so much sens! tiveness smong people who administer affairs. The reason there was not enough criticism and of well informed eriticism was that the critics were very much denounced. It was bed for the teachers not to judge and say what they thought about the matter. It was only by criticiem that the educational anthorities themeclyce would be able to progress in the proper mapper. Therefore, he said, it was their duly as tempere to criticise in this mapper-The lecturer next dealt with the necessity of strong and influential teachers' associatious all over the Trembeury, so that through the matthe tions, they would be able to criticise with greater weight. Teachers must keep themselves acquainted with the movements in the larger world outeide the narrow limits of echool life. They should be acquainted with the progress made in about walks of life and anything that might help toward edecational progress. With regard to ornices of things actaide edecational matters the value stated to this was dependent upon the knowledge and competency of the critic If they criticeed any matter it must be taken for granted that they had dely qualified them solve to by learning all that there was to be known about the subject

PANALTISS OF CRITICISM.

They must realise that there were penaltice attaceing to criticism. If they offered their opinion is regard to mattere of administration, even though it be as well considered and as corroot as they could make it, they could not expect the criticised to warm to to them. However, the criticism can as was only when criticism came to be pretty common that the penalties would be avoided. If they offered criticism they would be avoided if they offered criticism they would be avoided for the The criticism of the avoid and pathing also a profit of a principal or aprincipal series.

THE TEACHER CRITICISED

He thought that octside the school the teacher was generally approsed to be parrow, mex nerienced in the larger world of silatio. doctriesire and concerted. He supposed that the idea of concert aross because a feacher is so often engaged in teaching that he sometimes forcets that I a is outside the echool and that the man be in endeavouring to teach is not his pupil. It was sometimes said that he relied solely nu books. This was hardly a just criticism. A teacher most necessarily got a wide knowledge of the world from contact wish men This was especially necessary because it was said, and teachers themselves frequently made the claim, that they were producing the future citizens of the Empire They should see there fore that they were not reexperienced and they got that larger expensace of the world

necessary for so important a work. They should utilize their specialized with work and merements of various kinds. With regard to their being deciriesten was always more nor less of a fault with people who had to pat a great degree of feith in books. But they were not content to accept all that was said in books. Books contained generalizations and they must see how artestly these contributions would be supported to the contributions of the said of the said in books.

What was the function of education? Milton and "Education fits a may to perform testly skillelly and megaseimonsly all the offices of life, both public and private of peace and wer' The teacher should fit himself to carry out this bis great task They had heard a great deal of late about engages, but he thought of the ones tion from the point of view of sugenics of the mind, as, the higher development of the mind Thay were not getting recently for the teaching profession the same bigh type of men se they used to get in the older days. This was partly due to great indocements beld out to the best men to other welks of I fee Taking the average teacher, be did not think that they took suffi cient advantage of their opportunities for self culture The tempher should be physically fit and try to keep up a high level of health Wiff, regard to the kind of collers it should be at thorough as possible to the teacher's party cufer ites of work and he shoold be as well sufurmed as possible un general metters. The fecturer concluded by asking teachers to take a more active luterest to peblic and political maliers.

THE COURSES REVERSE

The Hou his Mr. P. S. Strawmin Apprint concluding the proceedings and "One of my resoon in scepting the invitation to be present this armount of the proposed of hearing Mr. Ramanaths fyer. It has been an azzillent address and I am sore that that has been the feeling which has been produced in your minds. He has a large experience of education and with

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his fine colture what alse could you bayo expected? He has dwelt open the teacher as an active critic and as a subject of criticism. Ha has poleted out the verious tendencies which have been the subject of unfavourable criticism in a teacher sed he has pointed out to you how this criticism may be obvisted Gentlemen, I do not look opou criticism se an end in itsalf. After all, criticism is only a guide and s means to the real understanding of men and things, and I have a dislike of criticism for the sake of criticism, the object of which is not to elicit truth or to state troth. Now, in your profession you have sheadent apportunities for cultivation of the capacity for criticism in the spirit in which, I think, it ought to be amployed. Unlike others, you have the privilege of compelling people to sebmit to your criticism and listen to it and even to follow it. With such abundant opportunities for the exercise of the facelty of criticism you bays to see that your critisism is not nojest. There are two things which seem to me to be necessary elements, in any sound and jest criticism of men or things, and they are sympathy aed lusgication. If a pupil makes a mistake and you wish to criticise it, I don't think you will have discharged your daty as a critic adequately if you merely point out that his suswer is wrong, or that he ought to have given a different answer. You must try and put yourself is his place sod flud oot why he committed the mistake, what it is that led up to his proceeding slong that particular line of thought. or working at his question in a particular way. or expressing a particular opinion. You must put yourself in his place sud the exercise of imagiustion and sympathy is absolutely necessary to easble you to perform the part of a critic with jostice. It is only by so doing that you will be able to form a true and accurate estimate of the capacity and worth of your pupil,-that you with -be able to convince him that you are right and be is wrong. It is not enough to fell him that he is

wrong, you must tell bim why bais wrong. And in assigning marks—that favourite function of a schoolmaster-end appraising worth, you must see that you have made all allowances for tha unfavourable iefluences that have led your popil to do a particular thing, or give a particular onswer.

NARD POR A SENSE OF PERSPECTIVE.

"Another thing which seems to me to he sleo necessary in cultivating the facelty of criticism is a knowledge of perspectiva, I mesu, intellectual and more i perspective. Very often we miss the real position or importance of things or sobjects. It may be that the needs of the hopr or the exigeneies of our duty for the time belog may require that we should appear as if we ware obsassed by a particular idea. Bet you should never yield to any particular obsession. A man obsessed is incapable of sound jodgment of men or things. Very often people fail to realize the real proportion of things, the importance of various objects, the place to be assigned to different institutions, movements or things. It is only by's procoss of constant examination, by a process of applyels, that you can arrive at what I may call the free parepective of things. Almost every day you will find that the tendency to neglect perspective is exemplified le public effairs. There are men connected with different moremunts who exhibit this trait. If you hear a temperance preacher he will tell you that there is no other virtee in the world so cardinel as temperance, that the salvation of the world will be brought shout and the milleunium reached by temperance or tectotelism. The equitarise will probably tall you that eapitation is the most important thing io the world and that it should be carried oot at the expense of all other objects. If on the other hand, you turn to another who concerns bimself with the gospel of education he will tell you that there is nothing more important than education and that all things must yield in importance to it. Very often we beve evidence of these things in the way may which people and particular departments arga their claims to grants from Government Each official, or nec-official, who identifies himself with a particular object, puts forward e particular claim or object, as if that object or olaim were the most importent To show you that my remerks are not altogether of an academical conracter. I may give Which is the more von soother example imports of, elementary education, secondary education or University education? Now the advocates of elementary education will tell you that elementary edocation shoold have precedance over every other, because it is the most important If we are to follow this advice it will mean that antil the many crores of Rupees which may be necessary to satisfy the demands of elementary aducation are found for that porpose, no money may be provided for higher edocation. Are we then tu shut up nur Universities and close our secondary achools sod onlieges ? The nanel temptation of a man who has identified himself with one parts cular thing is to become a faddist. This tendency to exaggerate is our which I think we have to guard egemet I know it has been send that the world is moved by faddists but most faddists are men without a sense of perspective or propor tion It seems to me if you make it your end as a teacher that your judgment shall be true and sound, sod if you train your popils to exercase their faculty of andgment correctly and jostly, you will I ave discharged a most important function It is all the more your duty to train hove and young men to form a correct judgment, because it is part of your duty in train up the future citizen and you cannot possibly do it unless you qualify yourselves for the teak

"Gentlemen, my friend has pointed not that entitiesm is attended by penaltics. I hope that if any of my remarks have been critical they not to be followed by any penaltics. If, howover, any penaltics are to follow, I am quite prepared to face them. TRACHERS IN PUBLIC LIFE

"The lecturer has already dwell at considerable length upon the importance of your acquiting yourselves to such a manner as to obviate certain criticiams I know it is often proed against teacherathet they are doctringire and impractical. that thay are not man of affairs, and so on For my part I am quita prepared to make allowances for all of tham If they show ony such failings it te partly due to caosea which reflect credit on the teachers. The teacher is a man who, I believe, often holds high ideals If with these high ideals be works himself up into a belief that these ideals are realised or he becomes undoly optimistic, and so does not make adoposte allowance for the shortcomings and failings of humsuity outeide, it is an amiable defent I should consider myself e very harsh critic, if I did not make ellowances for such tendencies. At the same time it is necessary for the teather to evoid every defect that it is possible for bim to do. I do not see why members of your profession should not have a broader outlook then that obtemable within the four walls of the class room There is nothing to prevent you from attaining it if you will only follow the excellent advice the lecturer has given you You will thus find voorselves less and less open to the coproach of being unpractical Quite recently you know we have bad instances of man distinguished in the educational field making their way in politics and other members of the profession may follow the same example and coltivate a spirit of thoroughness and exprestness and a desire to acquaint themselves fully with the difficulties of the problem before expressing an approxon upon if The lecturer has werned yon about trying to impose immatore or uninformed opinions upon others and expecting them to eccept such opinions readily. This does not however dehar you from forming provisional upinions and discussing them with others."

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EDUCATION IN THE MAGAZINES. (INDIAN.)

"Civic Virtues."

Under the suspices of the Teachers' Association, Madore, Mr. J N. Farquhar, M.a., of Calcutte, delivered a lecture on the "Civio Virtues" before a crowded audience in the Sethupathi High School Hall, with Mr. A. Raje Rama Iyer, B.A., in the chair. The following is a summary of his speech .-

The State is the prior of all the reonle of thu country for the highest welfere uf each uf them. Three functions are necessary for a healthy State. First is the protection of person and property of the nitisens for which Army. Navy and Police are needed. The second is the edministration of law and justice. The third has reference to trade and communications. No Statu could be bealthy unless the Government looks after the roads. bridges, harhours, &c. It has also to control uver Bailway, Post and Telegraph uffices. The fuurth is the undertaking for the heneft of the neople miscellaneous pieces of work. Dapartments to gather information are escosary for the growth uf Commerce and Industry. In all thuse four functions the modere statu as well as thu encient state are at one but on two aspects they diffur. The project state was statistic whecens the modern le prograssive. In all aucient States the idea was that the tawe had been gives by God in a hody, clearly stated and finel which under any circumstances could not be eltered. To propose a change of law or to seek to modify the Government was tresson and disloyalty to the Government. But in the modern state the conception is that the human life is constantly changing and neturally the state should change along with the human life. It is impossible for a modern man to think of a healthy Government otherwise then changeable. In every modern state there is the legistative constantly active for making laws and there is also a serious endeavone to better the social conditions of the people. The

escord point of distinction is that in a modern steto the idee is that the people should govern themselves, the uxecutivu meruly being the seevants of the peuple. The idea uf Self-Covernment is a modern one and meant not that a body of educated may should take the Government into their own hands but the people should govern themselves. No Government is perfect and evon republics ere not completely selfgoverning. To attain Self-Government is a most difficult thing, and it could be only secured by graduel process whereby muthode should he used for bringing the ideas of the people to bear upon the Guvernment by careful device of machinery and the success would depend upon two fecture, the eincere desiru uf all thuse who are at the centru of Government to actually put the Guvernment under the hands of the people and the reel capacity of the peoplu tu guide the Government, Self-Government le the ideal of every Guvernment and the civin virtues are of almost importance. The first duty of a citizen would be loyelty-loyalty to une's uwn country and peuple. Loyalty tu une's country means loyalty to the highest welfare uf all the people uf the country, which elso implies loyalty in the constituted Government.

Thu second virtue of the citizen is conrage. These are esveral classes of courage-courage of a suldier, courage in a man of authority and courage of a reformer, civie. Coorage is escential end must be hard and it is necessary for the encoess. The third virtue is patriotism-love of ene's nwn country and love of the people, it is not the sentimental love but practical love for the welfare of Indie, that is true petrictiem This spirit is spreading throughout India at the present day. Layelty, conrage and patriotism ers the three prominent civic virtues which are of extreme value and importance to the modern etate.

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Influence of English Literature

Mr. J. S Chekraserti, the Compitaliar and Financial Secretary to the Guvernment of Mysore, presided at a lecture giren by Prof F W Qmoton-Anderson of the Cectral College, on "Feglish Literature" The following forms part of the closing remarks from the chair —

There are four rasons why the study of I uglate literature is necessary and important for the rising generations of India | Inglish fiteretors most be studied for sie ewo aske, for its great beenty and richness . It should he studied so that we may fully understand the l'nglish people -the qualities they possess and the stuff they are made of, it should be studied to improve and enrich our owe varneculers, and it should be studied to impact new elements of invigoration and emancipation jule certain aspects of our own social and moral character. There is yet soother ranson why English literature shoold be freely and estansively cultivated throughout the fength and breadth of the Indies continent. It is a veloable and powerful natifying force towards the realization of the goal of making lodings a solid and united people If ever the three hundred and odd millions of ladis are to have a common medium of expressing their thought, that will be connected in some intimate way with the English language, and if ever the three hundred and odd millions ere to form a united people with common ideals and a common culture, which should, of course, be essentially Indian, the infinence of English hierature will be invalaable to the shaping of those ideals and to the evolution of that culture

Advice to Students.

His I KLELLENCY LOND CARMICHAEL in his speech at the Dacca College gave the following piece of advice to Indian students as regards their future career.

"I connot help being struck hera in India by the fact, which I find very hard to understand, that so many young men seem to look to Government service as the profession which they most wish to follow I emprose it has its ettractions or perhaps it in that other careers are more difficult to anter upon, but the number of postain Government service is ver small and must always bo amall as compared with the number of students who feare our colleges avery year, and it seems to me most desirable that students should realise this more fally then they do I hear almost every day of young men whose fethers have given them good education, who have had a creditable career at the Uotsernity, but who have gunn to their homes and era welling there in honce of finding Government employment and who are soffering bitter disappointment because it is not possible to get that employment I do hope that that will not be the case with any of you, but that you have, even though you went Government posts, thought of some accord string to your bow

Tha A B Patrika writea sa follows :-

Lord Carmichael would have conferred an eterest obligation on the papple of India if he could have shown a career for our educated young man. The commerce and trade are in the heads of foreigners. It is absolutely impossible for them to compete with these anterprising capital. ists. All our industries have been killed. Agriculture does not pay, even the produce of the fields are in the hands of Luropean merchants and traders The future of our hopefuls is thus dreary in all conscience. It is starvation, pure and simple, that awaits 11 am , for they have abcointely no accord string to the bow, and the only atring laft to it is threatened to be snapped. University education may expand the mind, but at does not allay hunger We think His Excellency will now understand why our young men worry the authorities for employment under the State.

Certain aspects of the Dacca University.

The following views of Sir Gorndess Bannerjes on certain aspects of the Dacca University Scheme, will be read with interest:—

- "H 'residential University) is less adapted for moral and religious education by reason of that very excess of help, essurance of comfort, and regularity of supervision, which are less beinful in training men for the rough world nutsida thu College walls, where they have to be resourceful io emergency, to erruggle patiently and cheerfully with adversity, and to accept the inevitable with colm resignation to a will that is inscrutable and supreme. Living with parents or guardians, or in small messes under suitable occasional appervision, in far more elastic, gives students far better opportunities of mixing with homen beings se beman beings and not merely as stedente, and is far more oundpoire to the growth of those morel and aptritual qualities so accessary for the world, than the rigid rontine and deed level uniformity of life in a large hostel, where the largeness to the number of boarders must make discipling to a great axtent more mechanical than "Jagoared
 - "The satablishment of a College for the wellcode classes as a part of the University is open to gree objection. In the first piece, there is no measury to ranch a Gollege in connection with the University, as it is not proposed (see Roper, part of the College should as a part of the College should as a part of the College should as a for whom such a Gollege is intended here supple mesor to assisting a special College themselves.
 - In the second place, the inclusion of such a College in the University will impoir the integrity of University discipline by the unequal treatment of the rich and the poor side by side, and will give rise to unbesitby feelings in each class towards than other.
 - In the third place, those for whom it is intended will becell for less by etdying in such a College than they would by becoming sindants of an ordinery college, and joining in the competion with a hatter though poorer class of students.
 - To introduce distinction between the sich and the poor into the temple of learning would litsecond with one of the noblest and most cherished of hames sentiments."

Education in Bombay.

In preciding at a formal ceremony connected with the insenguration of a High School in the town of Lurkane in Sind, His Excellency the Governor of Bumbay delivered the following interesting speech:—

"I beye taken the deepest interest in all educational matters during my period of office, and I um sore that the Presidency is advancing on the line which leads to the general walfars for which much remains to be done. What is called and often miscalled Technical Education useds reform and development which Government bere under consideration. Agricultural training, both theoretical and practical, most be extended, and the psefel experimental work which the Goverament are carrying on must be brought closs to the people by means of damoostrative Farms, and other ways which the apread of literary adocation will greatly essiet. I do not think that the Primery Schools can nodertake any teaching of egriculture with edventage, but Indirectly they will greatly facilitate the diffeelon of useful knowledge sod will stimplete new interest to the vitel industry of India. Similarly, we hope that onr assitary primera will belp to promote acquaintance with the elementary laws of health which are now widely disregarded. Higher adocation feares much to be desired, but the two Science Institutes, and the College of Commerce which the wise patriotism of Indians has enabled me to start, will in time play an important per In training Indian brains to sask the solutions of Indian problems, to appreciate the logic of fects and to avoid the too nerrowly speculative habit nt mind which has bempered Indian achievement Education, believe me, is a very difficult sobject which is not yet perfectly understood to most countries. Extrest thinkers are beginning to tell us that great mistakes have been meds in the peet, and that the present ideas need extensive revision. The education of the messes mey be said to be still in the experimental stage, and the results so for have disappointed expectations, which were too senguine. India must be ready to move with the times and to welcome the reforms when they can be proved to be necessary. Among the Muhammadaus of Sind, adacation hes been for too much neglected, and the result is plainly visible in the disproportionale number of them employed to the administration. excuestly hope that they will correct this weak nees and that the High School of which I have the bonour to ley the foundation stone will be turned to full account by the parents of the

rising generation."

Education in the Madras Presidency

We take the following from the speech of H s
Excellency Lord Pentland on the occasion of the
distribution of prizes to the students of the

Madrae Medical College -"The adveccement of Medical acience must be one of the first sima of such an institution as this, if it is completely equipped for the work which is expected of it We live in an age of invection and discovery The earth has been transformed to the last two or three genera tions, but amongst all discoveries which have affected the lives of mankind, discoveries of eccence which have been applied to the practice of medicine have perhaps done most for the progress of humacity Then also this is a train ing ground for those whose noble calling it will be to endeavoor to relieve human suffering which surrounds birth Frond as we may be of what has been seen here in this city of Medical Institutions and facilities for this high purpose, still of course there remains a great deal to be However well aquipped this city may be, considering all the difficulties which have had to be faced, we are only touching the fringe here. the merest fringe of the work that has to be done in the years to come over great tracts of coentry which are to be found in this Presidency and in Here in Madras se bave a this part of Indie remioder in the death rate itself that we have much to do However, that is a wider question than a purely medical question I think those who konw will agree with me that if Medical Education is to have its full effect, if the work of those whn are working in this College is to bear full fruit, there ment ho a general and persistent andeevour to raisa the level of general education throughout the Presidency. For the appreciation of what is being done there must be a faculty of appreciation and power of appreciation must be increesed. I feel quitn sure that as years go on, better times, as Col Giffard says, will coms tota in all that he east sod so witely anya think with him in regard to the importance of this work not being left wholly to the agency of Government and I succeedy trust that m that direction also his hopes may, as time goes on, he justified and that increasingly there will be private recognition of the valee of the work which is being doos here. So far an Government is concerned Colonel Giffard and those who are working with him here may be sure that we shall not fail to racoguise our duty towards this brench of administration and washall do our nimest to enpport and advance the work which he and his colleagues are doing

Sanskrit Study in Calcutta

The Inaugural Convocation of the Board of Saunkrit Examinetions, Calcotta, was beld in the quadrangle of the Sanskrit College for the purpose of conferring titles on the students who had passed the banskist title examinations in various branches of Saoskrit learning. The keen interest which His Excellency takes in Sanskrit learning will be seen from the following extrect which we take from bis speech - I would like to tell you how much I appreciate your having invited me to preside here to day over this large gathering of learned Pundits from all quarters of the Province and I would like each Pandit to take back to his own Tol a message to his sebulare telling them that the Government of Bengal at any rate will extend to them thet sympathy which Sir Asstoch asks for, We hetened with delight to the Vice Chancellor's elogocot address, but I can imagine how much more entheematic you would have been, how mech more you would here appreciated his words, had he been speaking to you in Sanskrit, and I feel that we would ell heve been brought together mech more closely if we had all been able to nederstand him when so speeking However, I feel highly complimented that fir Asntosh took pity on my ignorance and enabled me to grasp the inner meaning of this Convocation by addressing you in my mother tongue instead of

to his own Sanskrit language and literators receive mech more attention in Europe new than they used to receive. Within the last few weeks people in London have been flocking to sea a Sauskrit play I am afraid it was acted in a translating, but nevertheless it shows that there is an awakaning of suferest which is all to the good I have oo knowledge of Sanakrit, and I fear I am not likely to lasto it now, but I spent a good deal of my timn as a boy in learning the classical languages of Greeca and Rome, and I hope I can appreciate the point of view of the classical scholar In that at least we are to sympathy. Civilia ition in the past owed much to the ideas expressed in your language. You have every right to be proud of those ancient ideas, and I have on doubt that a closer and more familiar atady of tham would prove a great gain to those who have to day even with the most moderti

problems of life
Perhaps some day the dream of an Oriental
Univarity to which Sir Asinosh referred may
be realised. If yet laure that Convocations of the
Based of Sanskrit Examinations, such as that
which we have inaugureted to-day, will bely
much in attaun this ead.

THE (FOREIGN)

Need of a simple Curriculum in the Teaching of History

The Annuel Meeting of the Hestorical Association was recumed at the University of London, Professor A. F. Pollard presiding.

Mr. G. G. Conlton (King's College, Combridge) read a paper on " The Standardization of History Teaching." What, he saked, bad rained the Army examinations for so many years?-A converted entriculum and a want of scientific proportion. Headmasters insisted that the boy could not dispense with certain applicate. The War Office, from se opposite point of view, insisted upon other subjects; and the pupil fored like a hespital patient whom the ductors fed on oce diet while his friends empggled in another. Was not this, io more or less degree, the admittad fault of all modero adecation? Too many sobjects were tagget, and they were tanget too well. Experience and common sense proclaimed the imperative need for a simple curriculum. Au honest carafully selected half woold prove for greater than our presset baterogeneous whole, If we took by chasce any down admittedly educated Englishman mature citizens doing good work in the world whose education anabled them to make the best use of their daily practical experience, it would be found that while each individual knew e great deal the greatest common measure of their knowledge was startingly small. Why, then must we necessarily eim at providing a dozen schoolboys with a greater common measure of education than we found smoon a dozen confessadly sducsted men l' Everywhere the unessential Much was a deadly enemy to the essential Little. He believed that by careful selection and standardization thay could instil what he would still call the azisting common greatest measure of knowledge in far less than half of our present school hours, or even in less than a quarter, if only we would face the facte.

They should plen to divide the school hours leto two perallel sets of compulsory and of Tylentery work. In the compelsory hours the took must be limited to that which nearly all the pupile could theroughly mester in the efforted time. Then should follow the voluntary lessons. and the student should specialize very much et his own choice. This choice of subject for helf their subcol time would meen for most boys intellectual aslystion. Could they not effect an anormous saving of energy by comprehensive and orderly schematization? In the first place, there most be a definite and official evilabes drawn up by some body of sofficient authority to secure its general recognition. They must know roughly bow much English history, European history, and world bistory they were aspected to teach. The arllebos would, of course, be graded. 'Next, in view of the ateroal dispute whether history was a science or an act, they would do well to recognize that, as taught in schools, it must partake of both characters, yet without coolesion between the two. A great deal of history coold be ewallowed whole and as repidly as possible. Of this kind were dates, mens, and so on, and even to a certain extent the characters of great meo and the contributory causes of great movements. They must make up their minds what were the communical facts; and if no existing out of books presented them, a sat most be written. Boys into whom such a compact hody of historical facts had been gradually remmed would be in a very different position from the everage modern papil, or even the average educated mae. If they had only two hours a week for history they could easily beild up this backbone in helf the time of their disposal or less, lasving all the rest for different work-sessier for the dall boy, more exacting for the clover boy, and therefore more enitebla and congenial for both. Side by side with the memory-work they could work through the same period with a book like Green's Short History. They could even approach history through the literature of the period, and they could suffer no boy to leave school without beving stedied and compared sources for himself. For the eake of exeminations, even more than for: class teaching, it was necessary that our historical

fdeale abould be standardized.

The value of the Teacher and the real

kind of Education

In the course of a lengthy article on the subject

in the Daily Chronicle Mr. A. C. Banson writers-The average men has a vague sense of the benefit of education, as a process whereby at is possible to better oneself, but he wants to get it cheep. He talks about the market value of a tempher, and he does not are that it is morth his while to pay a great deal to get the right kind of teachers, while it is hardly worth his whole to pay anything et all for the wrong kind of teachers Of course, whether the teaching is good or had, the process itself by which children are kindly and secubly described, tought order and chedience supervised and goided at an im pressionable time of I fe, is of the pimost valoo. but the resiend and erro of all education to the training of citizene What one desires to develop in all children is some consciousness of being a part of a great whole a senso of duty of work, a feeling that life is not simply a scene where one gete all the comfort one can, without any refer soce to the comfort of others on ideal in fact of enbordinging self interest to community interest

All this enough he communicated by normal lessons. It would be of little one to draw up a sort of civic catechism and make children repeat by heart the most virtuous and high minded sentiments. It can only be taught by men and women who feel it themselves people with a real sense of duty and brotherhood Thu first necessity then is to enlist such moral energy in the treining of the young and this can unty ba done by making the teaching profession one which offere not unly influence-it does that al ready-but civic advantages of an obvious kind A man who desires to marry and bring up his children well must provide himself with a eitn ation where this is possible. One cannot demand that all teachers shoold for the sake of the benefit to the State secrifics prospects at every point It is mere sentimentalism to engreat this and all who have any strong interest in the future of the State should take every opportunity of arging the necessity of making the teaching pro

fession ioto a real career There is no political ar assiel reform which would here saything like so great and far reaching effect on the well being of the country as this.

And then the question arises as to what type of education is the hest for the shildren of the nation. Pseryone who knows enviling of ele mentary adacation must feel that nur system is at present a very imperfect one attention is paid to special aptitudes and still less aftention is paid to the kind of work for which children ere being prepared. Whenever it is neged that adacation ought to be ut literian. one is met by an onicry from high minded persons who falk vaguely of culture But what is culture? It is a pity that the word has got rether program and uppleasant esecontions because it is a very real thing indeed and there is no other word for it. What online really means ie en inferest in ideas, in thioge which are not purely meterial, a susceptibility to higher and finer softnences. But what the advocates of culture too aften think is that it is an intellectual thiog which can be handed out to people in packets and which consists of reading the right books and knowing a quantity of facts But culture is not an accomplishment, it is a quality and it is hased onen imagination and amotion The rest thing which one wishes to develop in men and women is what I can only call imag pa tive sympathy Imagination by itself cannot do much, because one can have a great deal of magnation of a purely selfish kind which is just a satisfaction to the possessor, because it adds a pleasore to life sympathy pure and simple is a higher qual to still but sympathy without imagination tends in make one offer to other people not what they really need and desire, but what unn thinks thay ought to need and desire But imaginative eyespathy is a very high and fine quality indeed because it gives one the power of seeing into the minds and bearts of others as well as the dasire to help people along in their nwn way, and not meraly on the lines which one prefere

How I became an author.

Mr. Frederick Harrison writes :--

I must have been well on to thirty at lanet before I aver saw a line of mina in print. " How did I learn to write at all ?"-you ask; for I admit that I have been an arrant scribbler of late years, and bave two books naw on the sineks-Wali ! I learned to write just by writing, as fishes learn to swim by swimming, and birds learn to sing by singing. Only, I did not pour out my effusions on the public, but on my friend. That is to eny, by writing them letters by the post ever since I could hold a good pan, pointing straight to the shoulder-blade, and thus hecama the only living calligrephiet-isn's this "copy " itself, a record of heautiful penmanship in a man entering bis 82nd year ?- over since the year 1841. Whatever I saw a clean abeet of paper, a new peo, and a full toketandnone of your fountain abominations for me!-1 began to scribble ewey automatically. Naver mind agass, nor object, not even grammar. Write -write-write-as Hood's shirtmaker went stitoh-stitch-stitch. It's a sort of terantelle. I must write as a dencing dervish must dance. But I did not went to get it printed. I packed it off by post to a parent, a relation, a friend-some time to an enemy-and did not care a fig whether my correspondent liked it or not. No? nor what ba did, or enswered back. There are piles of my private and family letters in that invaluable historical work, my own Memoirs, an you may

Wall I after about twenty years of this epintolary scribbling, I got abla to ladite passable English—at least well apongh to estraty a public which is not particular about style. How did I been public authorabin? Why, of comes, T. P., I begau-as you and all aminant authors aince Mosas began-by journalism. Also I you will say, as a binckleg. I will tell you bow. I was a Barrister of Lincoln's Inn with some practice and good prospects of much mora. My father, a business man of fortune, rotanded ma to become a Judge, and regarded literature as a fatal trap for a young lawyer-sud so it was, and is. It would be a cruel disappointment to him to see me dabbling in any kind of literary by-play. Nor did I med it. I had a Fellowship of £300 a year, an ellowance from bim, and certain pros-pect of a modest fortune. Again, I was a pupil of Richard Congreys, and by the year 1860 more or less of a Positivist. Now in the ideal of Comte, and ideal, I believe only carried out in practice by Congreva bimself, it was positively

wicked to publish soything either snonymonsly or for pay. The literature of the fature—and I sgree that it is a mobile aspiration—is to be grateitions and signed. That is how I slid foto latters, iste in tife, by accident, and as a blacking —and that as journalist.

In ISS9 there was the war of Prence against Anatria to free Italy; and I, who had been trained by Mazaini and Saffi, became furiously keen for the Itelian vesorgimento, and devoted my Long Vacation from July to Navember to see it all in Italy. I volunteered to the Morning Post and to the Daily News to set as their correspondent in Italy. I want all through Piedmont, Tuscany, Romegna, and the Duchies, interviewing statesman, governments, and pupuler leaders in each tows, and sending bome to the tan papers, then organe of Lord Palmeraton and of Lord Russell, a mass of latters. Determined to be quite free, I insisted on paying my own axproses, and declined payment for the letters. Horrid blocklag !- you may well say. Once leave the path of virtue, eod one step downwards leads on to enother. So in 1880 I was feirly tenoched on the periodical press-agein as an emeleur and black ing. When " Esseys and Reviews," was published by Oxford theologieus I was deeply stirred by it and arged by Jowett's friends to criticise it. knew Dr. Chapman, Editor of the Westmisster Review, and I offered him the article with the ticle " Neo-Obristianity "- a word which I coined and bern added to the language. Again I was blackleg, declining payment, as for some years I continued to do in the Westminster Beriew, the idea being that the Review must be assisted by free contributions,

Every now and then, whilst in active practice at the Bar from 1858 to 1870, I occasionally fired off letters, articles, or raviews, to verious periodicals-and, on principle, gratuitous. I did and in the least want any enenal donceur, and as I felt bound to my father to stick to law-and fall it to be good for me to write only when I could not keep it bottled up in me-the habit was, both morally and intellectually neeful, and conduced to good work. When the Fortnightly Review was started in 1865, I found it open to mo on all sorts of topics for which I cared, and that not anonymously, but still as a casual volunteer. When I married in 1870, began to have a young family about me, quitted law practice and became profussor of jurisprudence, there was no reason to provent my publishing what I liked, and also pocketing any triffes which a benavolent public cared to drop into my money box.

Universities and the People-

Mr Joseph King, Mr, writes to the Trees before one time past the Prima Minester has been urged, from various ades, to appoint a Royal Commission to consider the position in the toncient Universities, Oxford and Cambridge Recent naivest to questions in thi Homs leven no doubt of the probability in the Government of the Control of the Control of the Statistics of the population, scholars enrolled in elementary schools, and nurversity strictions in the three great European natives Greenbay, find it there great European in the Control of the Co

Elemen University Population tary echol- students

German Empire 60 641,275 10 224,125 57,300 Feauce 39,376,000 5,629,906 40,000 UnitedKingdom 45,005,633 7,587,276 27 000

The proportion of university students to population and to scholars in elamentary schools is shown by the following figures -

Studenta per 10,000 of University Students per 10,000 of Elementary atndsote in population. scholars 94 56 German Empire 10 71 Franca 35

United Kingdom 6 35
The statement buth rate in France is qualified by the quality of the population instillectually be depended by the quality of the population instillectually send technically, hence appeared to that of internations. But the serious fact for us is that, man at the oniversatives where France has ten, and in proportion to one elementary school children we have oun naiversity acident where France has two Compared with Granamy we stand only the contract of the

slightly better. There are other facts in connection with the great question which need to be ramemberednor vary small number of nurserity man teaching in alemantary according to the subject of our nurserity dudents enjoying the ancient and owners and great advantages of our success and owners and great advantages of our success tegglish universative; and the subject of the su

Modern Languages and the Universities At the ennual meeting of the Modern Language Association Miss Surgeon read a paper by Miss Take, Principal of Bedford College, London, in which shu declared that the study of modern tanguage even with medievel thrown in, had not proved equal to that of the classics in producing a schularly habit of mind Bot che wes not convinced that this defect was inherent in modern languages as a subject of study It wee probably due to the fact that the training had been far from carnful and thorough Possibly there was a conflict between academic and nighterian emewhich did not exist in the teaching of classics and history What she desired from the study of tenguage, encient and modern, was that it should widen the outlook, and train the intelligence and the ressoning powers. A language taught with those ends in view woold avail, whether it was needed for husiness porposes or not. Thu study of a language traued the mind he demanding accoracy and by the use of reason ing powers in the understanding of the grammar end history of the language. The ootlook wes widened by the acquaintance afforded with the life and thought of a race other than onr own, and by the sindy of its literature, history, and social enstome She would prefer that German should take the place of Franch as the modern language most generally taught in schools, because Garman afforded a better training for the child's mind and its literature was more easily appreciated by young persons Latin should come second. French abould begin late in the school course. and should be taught only to those children who had a foundation of Latin Failing this change they should demand that a student who entered a university with the intention of making Franch his stody must have a good basic of Latin was essential for a student of literature to know something of the historical events which formed the back ground of that literature; and he could not appreciate ony une period of literature unless he had anme ides of the general chain of literary development. In the honours examination in literature the aludant should be required to write his answers in the language ha was studying. In composition a sufficiently high standard was not set in regard to accuracy and nicety of expression That criticism held good not only in repard to foreign languages, but also to Fuglish. Is night not to be possible to obtem high honoors in English at a university, and yet write no-grammatically. The standard set was still less adequatum regard to the spoken language. The oral test should be concerned only with excellence of exprassion,

THE UNIVERSITIES.

MADRAS UNIVERSITY.

Nomination of Ordinary Fellows.

The Chaucellor of the University of Madres is

pleared to nonicete the following gentl men to be Ordinary Fellowant the Madras University:— The Right Rev. Penl Perial, s.z., on. Yakob Hason Sahib Bahdar; Mr. R. G. Grisev, M. S.; Reo Bhadar A. Q. Panetarthibara Aiyar, a.; Mr. S. Swaminathan, M., Li. R. & B.So. Pa.D., Berat-Law; Mr. G. V. Appa Ran Pantolo, a.a.

L. T. Degree Examination 1913, Practical Test (Old Regulations.) The undermentioned candidates have passed

the above examination in the 2ed class:
Acantacobbe Row, Pariyapatan Krishnama-

Adantsooble Row, Perlyapatan Kriehnam char, Sirenge m Sandersm Alyer.

Cambridge Local Examinations.

Mr. Wm. M. Theobald writes:—The Cambridge Local Examination certificates are not at present accepted as an estrance to the Madras University work or Government service.

The Scolor Examination certificates as accepted, under certain restrictions, by all the Home Universities and by the Board of Education, Medical Concell, Law Sociaty, Institutes of Civil Engineering and Architects, etc., so that to atdents who will be going to England for pressional work that examinations are of value.

I am expecting a further supply of Regulations, and candidates who jetsed to appear atther next July or December can have a copy on application with stemp to cover postage

Aganda for the next Meating,

The Scotte of the University of Madres will meeted Friday, March 7, next et 4-30 rm Among the more importent items on the sgends ere the following:—

Taking Degrees.

The Syndicate bas recommended that among the resons for which graduates for dagrees may be exempted from attendence at the Convection [Regulation 68] the following be added "or whn from some nuavoidable cause is nuable to hu preson!"

. The fee for this exemption in proposed to be raised from Rs. 10 to Rs. 25.

Instead of the 5 days' notice required from candidates for degrees who intend to be present at tha Conrecation it is proposed that 10 days' police absold be given to the R-gistrer.

University Lectures.

The Syndicate has recommended the following list of lectures:

Mr. P. V. Senbo Aiyar, B.A., L.T.—Fourier's Schessand Integrals and Spherical Harmonies with application to Physics—3rd Yrar of Honoura Course—20 lectores.—July to Septraber 1913.

Mr. R. Ll. Jones, M A.—Electrical Oscillations and Wave Propagation.—2nd and 3rd Year of florours—25 lectures.—Dacember 1913 to Feb. 1914.

Rev. A. Meffat, M.A. B.Sc., F.R S.E.—Conduction of Electricity in matals, Electrolytes and gases—30 lecteres.—July to September 1913. Rev. R. Gombert, S. J.—The were theory of

light. 20 lectures. Out. to Drc., 1913.

Mr. W. Erlam Smith, M. A. The History of the Determination of Atomic Weighls. 3rd Yrar

the Determination is Atomic Weights.—Str 11st.
in Ronoura Course.—20 lecters —Joly to Sept.
1913.
Mr. J. L. Simonson, D. Se.—Tha Chamistry of

Synthetic Dys Stoffs...3.d Year of Hanours Course...20 lectures with Practical work...July to Sept 1913. Mr. P. P. Fysoe, B A , F. L. S...The Geogra-

phical distribution of Planta with special reference to Indis — 2nd and 3rd Year of Honours Coorte.— 12 lectores with 12 or more Precticals.—Jan to Mer. 1914. Mr. W. Rae Sherriffs, M. A., S. Sc.—The

Persantic Protoces or Persanticlogy.—2nd part of Honores Conres.—10 lactores of one hour each with 10 Practicals of two hours each.—Oct. to Dac. 1913. Mr. Murray Sturet, D. Sc.—The Oil fields of

Burms troad advances on nor knowledge and their caracters and relationship; their yield and the probable supply of oil still available; elif-said problem; imported fields; other elif-saids in and second the fedina Empireand their importance— —20d and STA Years of Honoers Course—¹⁰ lectures—July to Sept., 1913. Mr. Ferrand E. Corley, M.A.—Ancient Federa

tiens — 2nd and 3rd Year of Honogre Course.—
20 lectures — Jav. to Mar. 1914.

Ray. P. Castr. S.J.—Madera Taxation and India — 20 lectures — Day 1812.

ladie -20 lectures, -Oct. to Dec. 1913.

Mc. Mark Hanter, M.A.-Indo-Germanic and

Germanic Philology with reference to Gothic and ald English confece. —2nd Year of Honour Course. —2n lectures. —July to Drc., 1913 (10 lectores a term.)

Mr. J. H. Mackininsh, M.A.—The History of Criticism.—1st, 2nd and 3rd Year of Hosours Course—20 lectures—Oct. to Dec. 1913.

Mr S J Crawford B A., B L tt -Old Inglish Poetry -- 1st 2nd and 3rd Year of Hennurs Course - 20 lectures,-Joly to Dec 1913

Mr. S Kuppuswami Sistry, 21 A - Hindu Philosophy with special reference in Nysys and Verseshika ayatams -20 lectures -Out to Dec 1913

The Place of Varusculars in University Studies

The Syedicate places before the Senets the Report of the Comm tten of the Secate appointed on March 2 1912, to consider sed report apon the position occupied by lengueges other than Loglish in the various courses of study and frame and present to the Senate any properts for alteretions in the regulations that may be coondered desirable to order to ensure mora stteetion being paid to such language

University Studentahips

Mr S Billisasa Alyangar has given notice of his intention to move the following resueltions-That Regulations 401 to 41 l ba vevined so as to provide for the great of University studentships of higher value and of looger terms of years and not limited to subjects in the Faculties of Arte, Medicine, and Engineering only

That s Committee of the Secate be appointed to frame and submit set of draft regulations in place of the existing Regulations

401 to 411

BOMBAY UNIVERSITY

Changes in Fees At a recent meeting of the Senste of the Bombay University, Mr Justice Heaton, Vice-Chaocellor, presiding Dr Mackichan moved the adoption of new regulations regarding the fees for admission to the Arte and Science exami nation. This, be explained, was necessary nwing to the recent changes in the correction, for it was felt that if the equilibrium between income and expenditura was to be meietained certain changes were necessary in the fees to be levied

Briefly, the Syndicate's proposal was to estab liab the face as follows -Previone axemination, Rs. 10; Intermediete s zeminstion in Arts, Rs 20; B A. degree examination Rs 30 for pass axemination, and Rs 40 for honours examination; M.A degree Rs 60; Intermediate in Science, Rs 25; B.Sc degree, Rs. 30; M Sc. Rs 100, The proposed increase is the examination fees, eard Dr Mackichen would bring the face on a level with the fees charged by other Universities Prof O V, Muller seconded and the proposi-

tion was carried after a long discussion

University Convocation Lord Sydenham, Guvernor of Bombay, presided

at the University Convection held on the evening of the 18th testant The hall was crowded After the conferring of the degrees His Pacellancy delivered a lengthy address from which we give extracts on another page

CALCUTTA UNIVERSITY

Lord Carmicheel confers Honorary Degrees A special Convocation of the Senate of the Culcutta University was held at the Sanata

House, College Square

In the absence of His Excellency the Chao collar Lord Carmiobael as Rector, presided at the fenction and delivered the diploma of the Honorary Degree of Doctor of Science to Dr Andrew Russel Forsyth and the diploma of the Honorary Dagree of Dictor of Literature to Professor Hermane Oldenburg

Sir Tarak Nath Palit Kt, upon whem the Honorary D gree of Doctor of Law was confarred was absent and coable to receive the diploma from His Escallancy

The bell was decorated as on the occasion of the nensl Acoust Convocation The sents were arranged in the same way and a procession was formed of the Registrar, the Members of the Syndreale, arranged two and two in order of esmiorary His Excellency the Rector, the Vice Chancellor ex officio Fellows arrenged two and two so order of sectority and the ordicary Fellows arranged so the like manner, the procession autered the hall Her Excellency Lady Carmicbael arrived accompanied by the and so Aide de Camp. The Registrer presseted to her a bosquet

Annual Mesting of the Senate

At the close of the Convection, the annual meeting of the Sanate was neld with the Vices Chancellor in the chair A large list of forms! business was disposed of including the constituting of the different feculties for the year 1913, of the Board of Accounts adopting of the access report of the Synds ats and so no Dr Brosendra Noth Sil M A . was elected University reader in Pulosophy, and De D E Rose and Mr. G F. Shiray representatives on the Syndicate,

ALLABABAD UNIVERSITY Courses of Studies.

Courses of studies for the preliminary scientific axaminatine for the Degree of Bachelor of Medicies and Bachelor of Surgery, to be held in Allahabad form Monday, the Sth September 1913, and on the following days

Chemistry :- The Modes of Occurrence, Preparation and Geosral Characters of Mathane, Etheoe, Ethylene, and Acetylene, and their derivatives, vi: Haloid Componnes, Alcohole and Etheres Salts, Ethers, Aldahyder, Ketones, Acids, Amices, Starch, Sugar and the processes of Permentetion, Urse, Benzines, and its more important derivatives, Glycerine and Saponification, Boron. A brief description of the following motals, ontlines of the most important matellargical processes, important compounds, Use and Tests: Sodinm, Potessium, Ammonium, Celeium, Magnesium, Zine, Marcury, Alumiulum, Copper, Silver, Iron, Tin, Lead and Actimony. Nature of Combustico, Streeture of a Reme, Canso of Luminosity, Oxidetion and Redection, Blowpipe Flame and its Use, Acids, Atkalie, and Balts, Nontrelisation.

The goneral methods of the preparation and parification and the Principles of the Ultimate

Analysis of Organic Substances.

Sindents chall elso be required to pass on additional practical examination in Elementary Volcmetric Acelysis, viz., Titration of Acid and Alkalis, Estimetion of Ferrous Salts by means of Potassium Permengeoate, Estimetion of solehle

chlorides and earbonates.

The following book is suggested :---

Remsen's Organic Chemistry (Mecmillen.) Biology .- The Syllebus prescribed in general Biology for the Intermediate Examination of 1913 to addition to the prectical work of the

dissection of the rabbit. For the preliminery scientific exemination in

1914:--

The casmination will be held in Chemistry only and the course of study in that subject will be the same as in 1913.

THE PROPOSED HINDU UNIVERSITY. The Hindu University Deputation headed by

the Mahereja of Derhhauge and Pendit Maden Mohan Malayiya has visited various places during this month. Big donations have been promised. The following are some of them :-- ' H. H. The Maharsje Sshib of Nahha-one lakh. The Maharsja of Bikenir Rs. 20,000 and the Meharejs Kumer Rs. 5,000, in eddition to Rs. 4.36,000 already subscribed. H. H. The Maharaja of Jodhpor Re. 2,00,000 in lump and 24,000 apposity to found a chair to be named efter His Excellency Lord Hardinge. This is the largest individual contribution hitherto made to the funds of the University. H. H. The Mehereje of Indors, 5 lakhe.

TECHNICAL EDUCATION.

Typewaiter Torics,

The writing machine industry has very rapidly developed and the spirit which now prevails in Enrope in the manufactoring as well as the calling ood, is a eign that the business therein is fast moving towards the stage it has reached in America. There are now two hig magnifecturing countries ectively working in all markets, and these two ere the United States and Germany. A bage number of makes here flooded that merkets and it is our purpose to girn some interesting notes about the mechanism of the various mechines which mey be of come interest to the type writing student, illustrated wherever possible.

The following machines ere represented in the Medres merket :- The Remington, The York, The Underwood, The L. U. Smith & Bros. The Oliver, The Armstroom, The Smith Premier, The Empire, The Imperial, The Blickensderfer and the Royal Ber-Lock.

There ere verices other makes too nomerous to mentioo. But we shell give the names of some of theen :- The Mooerch, The Secor, The Victor, The Visigreh, The Corons, The Triumph, The Triumphator, The Torpedo, The Uracis, The Perkeo, The Boyel, The Fox, The Visible Stoewer Becord, The Mercedes, The Continental The Zel, O. Sholes Vinible, The " Stoewer Elite The Senta, The Hemmond and The Erike (Bijon).

blr. Albert J. Sylvesiar (letely of the staff of the Underwood Typewriter Co , Loodeo), who was in Bladres in connection with the Public Services Commission, gave a demonstration of high speed typnwriting on the Underwood Typewriter in the Anderson Hall. There was a very large gathering, and Mr. V. V. Scioivsen lyengar presided. Mr. Sylvester typed on noseen paseage, selected by the Chairmen, at the rate of 89 words a minute, and he typed a second passage at 97 words a minute. Then ho typed a passage from memory at 176 words with only a very small percentage of mistakes. In the bliedfol test which followed Mr. Sylvester socceeded in typiog a passage dictated by the Chairman with ecerculy ony mistakes.

INDUSTRIAL EDUCATION IN BELGIUM.

About twenty-firm years ago the first trade school was opoued in Liege; its purpose was to teach the principles of dreesmeking. Since that time the growth and dovelopment of trade schools has been most rapid. At procent almost every existing trade has ito training echool for the young ertisan Schools oxist for training the aron worker, the wood worker, and the workers in zinc, lead end leather, the decorative arts plombing and house painting are also taught. If the present rate of development in this direction continues, Belginm will soon rival Germany, in which country those branchoa of instruction are probably enperior to those of any other European country In the matter of trade echoola in Belginm the province of Lioge, according to the Amorican Consul there merita particular atten tion, as it is ospecially in advance in this direc The long list of existing trade schools hos lately heen added to, through the opening recontly of an institution for teaching printing, book hinding, lithography, etc It has been organised under the patronega of an essociation known as the Chambre Syndicale des Patrons -Imprimeurs del Arrondissement de Liege This inotitation is to produce first clear printers, lithographere, end book biodere, giving them anflicient general instruction to enable them to become efficient and up to date artisens enhool is under the control of the executive committee, consisting of three members, repre sentatives of the Government, the province and the city of Lioge respectively. The steff of teachers comprisos twelve members, namely, one director, one professor of ornementation, seven of typography, one of book hinding, one of lithography, and one of French Fire years are required to complete the course

BENGAL TECHNICAL SCHOLARSHIPS, 1913

The Government of Hoogel ers prepared to recease applications from statetory natives of lodu for a State Technical Scholarship tendies of Life America for two years, of the subject of Life a year, exclasive of fear payable to the mention through the state of Life and the strength of the subject of Life and the same of the life and li

Madrie Trensical Scholarshife, 1913

It is notified that a State Technical Schulerehip will be awarded in the Madrie Presidency during the current year for the study of the leather goods rednity Candidates desurces of prosecuting the technical and of the nodestyshould submit that applications for the scholership to the Director of Pahlic Instruction, so as

to reach him on or before the let March 1913 Other things being equal, preference will be given to gradestee in arts who have specialized in Chemistry

COCHIN TECHNICAL SCHOLARSHIPS, 1913.

The Dewan of Cochin considers at absolutely necessary to constitute a aspersto Mechanical Department with a well qualified full time Engineer at its head. He is to be in 'profes monel charge-(1) of pariodical enpervision of the Tramway, (2) of too workshop at Chalakoddy to be called the Control State Workshop, (3) uf all alectric and telephone places, and (4) of all motor eara boats and mechinory, eg, pulso moters, pumps, dredgers, etc. Ho is to get a aslary of Rs 400 to 500 a month and his head quertors will be at Chalakuddy For this post of Machaolesi Engineer a new man is to be appointed for a period of threa years within which time the Durber hopes to got one of their own men trained in Epropa to take "responsible charge of the department' A scholership for the etndy of Mecheoical and Electrical Eogi peering in Enrope is now offered for which applications should be enhantted to the Dewan not later then the let of April, 1913

ELIMITATIONS IN MYSORS

The metitation of the Entrance Esseminston, Accounts Branch Public Works Department, as one of the Local Sarvire Esseminations, has been sanctioned by the Nysora Government The rules proposed for the conduct of this szemine tion have been approved

SHORTHAND ASSOCIATION, TRIPLICANS

At the second anniversary meating of the Shorthand Association, Triplicane, held recently to the Presidency College, interesting speeches were delivered by the Hon bla Mr. Y. S. Srinivasa. Sastrier, and the Hon'bla Eur. Harold Stinert on the seporting profession.

SOME OF THE GRIEVANCES OF SECOND GRADE COLLEGES.

That, in the existing state of education in this Presidency, the second grade Colleges are fulfilling a nasfel purpose has been recognised. These institutions have, of late, advanced considerably in efficiency, and, in spite of the disabilities under which they labour, are doing good work. It would, therefore, be just and proper that they are recognised to be as much lottegral

THE EDUCATIONAL REVIEW.

parts of the University as the first-grade Colleges.

The statement recently issued by the Committee appointed to consider the question of the Vernscelars shows that there are now in this Presidency 28 second-grade Colleges with 2618 stedeets (ie the first sed second vest classes) as against 14 first-grade Colleges with 3193 students; and they can. therefore, legitimately claim a larger and more intimete shere in the administration of the University than they are at present allowed.

The first-grade Colleges seem to have a monopoly of the sests on the Boarda of Studies; they also fernish almost the estire body of examiners. The second-grade Colleges are thus completely shut out from participation in a work in which they are as much teterested as the first-grade Colleges. It is certainly not fair to make the first grade Colleges appropriate to themselves the sola right to regelate the courses of studies and fix the standard of exeminations. These are gesations in which the second-grade Colleges

have equal voice.

There is yet another matter in which the second-grade Colleges are practically ignored. One searches to vain the recent list of nominated Fellows for any recognition of these lestitutions. Of the eight appointments made this year not one goes to a accond-grade College. First-grade Colleges are represented on the Senate by more than thirty nominated Fellows, while the accordgrade Colleges have but five to represent them.

· What is more bitter is that busy lawyers who have so breathing time to spare and men in the street without any qualification or claim are nominated in preference to the legitimate claims of the second-grade Colleges, who by their position, education and other qualifications are eminently fitted to partake le the administration of the effairs of the University.

Is the true interests of higher education we would plead for greater confidence in the second-predo Colleges and closer union of the University with them. It would be sound policy to regard them out as aliens with no privileges, but as mombers with the fell rights of citizenship and trest them accordingly.

MADRAS STUDENTS' ADVISORY COMMITTEE.

Circular No. XVII. ADMISSION OF INDIAN STUDENTS TO THE

INNA OF COURT.

The affection of lodien students is drawn to the modifications which have been recently adopted to regard to admission to so Inn of Court.

- I. The examination list set ent in the fland book (13th Edition) has been amended is two respects-
- (a) The Preliminary examination for the Degree of M.A. conducted by the Joint Board of Examiners of the Universities of Edinburgh. Ginegow, St. Andrews and Aberdeen in only
- accepted for sindents whose nation language is English. (b) The Oxford or Cambridge Senior Local Exemination is only accepted whee two of the

Sections ie which the candidates passed are certified to be-

- (i) English Language and Literature. (ii) Latin.
- II. In line of the certificate from a Collector or Deputy Commissioner or Political Officer hitherto required from a Netiva of India
- Certificate from the Secretary for Indian Students appointed by the Secretary of State will have to he obtained. It will therefore he necessary for an Indian atudent to the Madeas Presidency who desires
- to be admitted to the Har to apply je the first iestance to the Secretary, Madrae Bindents Advisory Committee, and to furnish to him-(i) Testimonials of good character from his
- Professors and Tsuchers, whather in a college of a school, and (ii) A certificute eigned by one or the responsible persons, whether Government officials
- or otherwise, who can speak as to bis character and strading. There will be forwarded to the Secretary for

Indian Students at the India Office, who will also require to see the student in person. If the Secretary for Indian Students is then satisfied that he can recommend the student for admission to the Bar, he will give his certificate to that effect.

> ARTHUS DAVIES. Becretary.

February 1918, Madens Students' Advisory Committee. Reviews and Hotices.

AN INTRODUCTION TO ENGLISH INDUSTRIAL HISTORY. BY HENRY ALLSOPP, BA (G. BELL & Sque)

The study of this important branch of History

was hitherto felt heyond the reach of meat young people, partly doe in the fact that the averlable text hooks were far too learned and ecademic and also expensive, but this book is intended to supply a long felt went. It is undoubtedly an interesting, simple and sugges tive introduction to Industrial and Economic History It presents only the essential features The author ettempts to answer the questions "In what ways do men get their lucomes oow? How have Luglishmen obtained their living from the earliest times ? How did their various trader arise ? How is that great indostrice like the Woollen Indostry ere settled in certain definite districts ? What is the history of the working classes ?" The anthor has admirably encoreded in tracing the process by which England has become so vast, so wealthy so powerful as she is at present. The growth end decay of the English Manorial system with the persilel growth and decay of the guilds, the growth and decay of the domestic system which succeeded at are all portrayed in comple language The rise of the trading companies, the ege in which fectories and large scala production preveiled, the ege of wages, of rent, of profit and of interest are lucidly described Thus couldren ate helped to know somathing of the age in England when the lives of the puple were rego lated by local organizations like the Manor sud the Guild, next of the age to which the State regulated trade and industry by means of what was called the Mercautile system and nest of the age when it was held wrong for the State to interfere, when indiridual liberty and free competition were glorified. The obildren ere helped to realize that in the present age people heve once again begun to believe in State Regula tion and that they think at the presses day less of the nation as a whole than of the wall being of each of the individuals comprising the nation and that the conviction is gaining ground that if only all Fuglishmen are healthy, well fed, well clothed and decently housed, it all Englishmee have leisure for education and recreation then England will be wealthy, have many ships and presparous industries and be very powerful. We heartily commend the book in every teacher of History

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JUNIOR SCHOOL HISTORY OF INDIA, BY E W THOMPSON, MA (CHRISTIAN LITERATURE SOCIETY, LONDON AND MADRAS) As 12

The second edition of this book is before us. The aim of the author in writing this Junior Hestory is to make it a 'truly scientific introduction in the study of Indian History so as to enable the beginner to pass on without a dislocating shock to those standard works which deal mora folly with men and erents so briefly noticed in these pages. The book which sime at thia ideal is no doubt a go d one lut we are sorry to nutice that this otherwise excellent book is marred by number of defects. The bestory of South India during the 'Birda" Period 'it may be noted 10 passing it ought be called the Pre Moscalman Period) is disposed of in about 24 lines Oo the other hand many obsents names and events are mentioned. Why worry childrer to the Lower Secondary for me with Alpligin, Bucawen, Adayar Betile, Gibarwer, Gubiles, Euthydemos, Kalushe, Laki nobli, Bettle of Tazio, Vicaladova Wa ste curprised that a number of fects calculated to interest children and fill their minds with feelings of pstriotiem are eliggether omitted. One I oka in vain to know comething of the exteet of Acoka's Empire and of Samodragup as of he eystem of edministration in Northern India in the days of Chandragupta and of South India in the days of Reparate Chale Passing on in the Molame madan India, we find that even the neme of Krishua Devaraya se not mentioned Sirati'e "morder" of Afral Kl an is granbicalle described but not one word ie said shoet the statesmenship of the Maharatta chief The author, with true missionary spirit, bas taken very kindly to the Brahmana m Indial Not only does be tell cock andhott stories shout priests and their multiplying sacrifices for their personal appraid coment, he wants the school children to believe that the Indian Mutiny was caused by the "merchierons priests who did not want the people of ladis to change nid austoms, however had they might be" going about " telling lying tales that the Government was trying to spoil caste " We have the andonbted testimony of Lord II berta himself to say that the greated cartridges were wrapped la paper smeared with the fat of the pig and the cow and yet wa have it stated seriously in this book that a story went round that the cartridges were so greated We succerely front that there defects will be removed in the subsequent Egotteba

AMERICAN, INDEPENDENCE AND THE FRENCH REVO-LUTION (1700—1801)—COMPLETO HT S. E. WINDOLT, M.A. (GEORGE BELL & SONE, LTD.) 1c. net.

This book belongs to a series of English Bistory Scorce Books published by Messia. Ball & Sons. History teachers all over the civilized world are called opon in these days to use Source Books es an adjunct to the History lesson. The kind of Problems and Exercises that may be based on the documents are admirably illustrated in Kentinge and Frayer's History of England (A. & C. Black). It is urged that source books enable the pupils to take a more active part in the History Isseen. The volume before ne conteins extracts from the correspondence of Cathem. Home Office Papers, Letters of Junius, Comper's Letters, 'Task,' London Magazine, Gentleman's Magazins and Annual Register. The majorty of extracts ere living in style and ere erranged in chronological order. We regret that the book is not illustrated.

HIGH ROADS OF GROUBAPHY: ROYAL SCHOOL SERIES, EDITED BY EDWARD PARENT, LL. D. (THOMAS NELSON & SCHO).

As companion volumes to High Roads of History the enterprising firm of Messre, Nelson & Sone heve brought out these volumes on Geography and as books of this series are before us. They maintain the high level of excellence of Mesers, Nelson's books. The introductory book contains shout thing latters supposed to be written by a father touring round the world to bis children et bome whom he lelt behind. These letters have an attraction quite their own. Ten of these letters are devated to India. Burma and Caylon and Indian children in the Lower forms will be delighted to read them. They will be glad to he told that foreignere think that Indian children ere elways bright and merry and that they ere very clever indeed end that they ere much fonder of their lessons then English boys. The descriptions of scenery, towns end of people are throughout true to netere. The booksers all graded and the authors have taken great pains to put in them just those things which hest appeal to children and leave a permanent impression in their miods. Another striking feators of these books is that essuel relations ers very clearly explained. In Book III, the lesson on "The Heart of Empire" is ectually e lesson on the growth end development of towns. After explaining the statement that Lundon is a netion and not a city, the author points oul in cherming and simple language what it was that contributed to its greatness. Book V. which deals with Britain Over-sees contains eaveral chapters devoted to ledis. It is gratifying to note that it is a very faithful account of the country and its people and is weitten by one who not only knows the country well hot understands her people and their minds. Indien children's heart will be filled with pride when they read that their escred Gangee is the most importent river in the world and understand the causes for it. The lessons oo 'Life in Indie' is delightful reading. The ieffornce of geographical phenomeos on life is clearly brought out. Children ere told why it is that there is in this country no great incentive to exertion which obtains in Europe,' and that though enstom ie Indie is stronger then law, life becomes a kind of gamble breeding improvidence Speaking of Medrae the weiter seys "the other perie of India ere fond of referring in Mades as the benighted province; nevertheless it shows bettee than eny other part of India the results of civilized Government and in education it takes the first place. Nowhere in ladie ere the netives more eager to ettend the schools and colleges than is Madias." Page 188 contains the pictore of a temple and it is called 'Parthau Ueith temple. Such a name we never heard of before in bledree! From the picture we can easily see that it represents the Parthasarethy temple et Triplicane! The hooks see all profonely illustrated and some of illustrations are the finest, rarely met with in school books. The maps in

PREPARATORY ARTHMETIC, BY C. PRINCEBURY. (GRORGE BELL & SONS). 1s. 6d.

the books are faultless.

The book is written in accordance with the recommendation of the Mahamestical Association on the Teaching of Anthmetic in Preparatory Schools. The principles of the solpiest are replained chearly, the exercises over taken from the life of young mes and must consequently a movement of the preparatory of the solution o

EXAMPLES IN ARITHMETIC, PART II, DY HALL AND STEVENS, (MACMILLAN'& Co.). 2s.

These exemples ere taken from "A School Arithmetic" written by the euthors, and are

published separately because of the growing feeling among teachers that it is better to plot a book of mere examples in the hands of audedate and to gree their own orni explanations of principles than to put a complete 'text book into their hand. We are glid in note that this book is not a mere collection of examples that contain amount of the text has been reproduced wherever the examples would not be intelligible by themselves. Also some examples which are intended to be worked by special methods are worked as models in the text.

MATRICOLATION GRAPES, BY HUKAM CHARN M.A., B.Sc., First Professor of Matrimatics, Kriles College, Ambitare. (Parted at Servitass Vardaculari & Co., Madras) Prof. A. M.

Thus an elegant and well got-up lattle volume of de pages and as stochastic for the use of candidates preparing for the Matriculation estimation of the Funjth University. The linear graph of y = ms + c is exhaustively treated and amply illustrated. The illustration consist of (1) soin two of similar lattices. There is also a small chapter on a maple quadratic graphs in which the equations $(a - c)^2 + (y - c)^2 = r^2$ and $y = z^2$ are beautifully orphism?

The book is in every way satisfactory and will certainly put into the minds of beginners the right ideas and uses of graphical methods. We not hesitatingly recommend the book to all students preparing for the School Final Examination in the Presidency of Madras and elsewhere

Demestic Economy, by Mrs Catherine F Dementor, (Histories than & Co.) Price Ro 18-0

The instructive and interesting publication of the Dimentic Economy by Mir Catherine F Deglico, tha well known antitor of Practical Honsewifery, The Hospital in the Home, etc., and formatly Dimentic Boonomy Teacher, London County Count of, consists of three part dealing with (1) General and Personal Hygene, koods and Food Stuffs; (2) Home Nursuns, and (3) Needlework etc.

The author begins with a clear description of the composition and structure of the human body, a most wonderful and complex organism, a thorough knowledge of which would give the readers a ket of ralcable Information regarding tha useful functions the human body is performing The carned author then gives a long and fairly con-

nected account of the functions of the important organs of the human body such as the heart. stomach, the lungs etc The uses of food, the different food stoffs, the objects and different methods of cooking food, uses of water, composition and purification of water are then dealt with in minute detail The eccond part of the book relates to the infantile management, children's ailments malaria, cholers dysentery, etc. In the therd part the author gives some interesting bints on Isundry work and the teaching of cookery Mrs Catherine Deighton has selected a fascinating and almost fresh held of instruction and has successfully striven to give excallent education with great discretion It is certainly to her credit that she has compressed a huge mass of information on very many important matters of daily experience into a compact and fluent Much of the information collected nariative by the author se valuable. The chief merit of the book her in its educating mission. Tha author has really done a distinct service to her fellow beings who hunger and thirst after the knowledge of Domestic Economy by placing within their easy reach this praiseworthy publication. The book is well turned out and made attractive through the care bestowed upon its production by the well known Publishers in Madras, Messre Higginbotham & Co.

India Strikatnangal, DT C. S Randswint Altar (Poslisero DT THE ACTHOR PRINCE CANS. Madres) Price 8 As.

This small book is a collection of the biographies of eminent Indian women who were famous in the history of our land on account of their having been the ornaments of virtue, heroism, learning, philanthropy or patriotism It contains mostly the lives of Rajput quaens, vis , Padmini, Sam yukta Tara Bu Ram of Jodhpur, etc. Although the work is a translation from the "Heroines of Ind' to English by Mr Manmatha Nath Dutt. m A . of Calcutta the style is homely, popular and pleasing and Mr Ramsswami Aivar has spared no pains to make tha language run smoothly and has drawn the moral towards the conclusion of each atory Tha illustrations are a noteworthy feature of the book and it may be used with conciderable advantage in girls' schools, while it is boned to be entertaining and instructive for the "Zenana," in the cause of whose education Mr Asyar has been doing excellent work as editor of the Tamil Zenana Magazine

THE WINTER'S TALE: A TAMIL DEAMS, BY K. VENEATARAMA AIYAR, B.A. (PERLISHED BY THE HINDU EDUCATIONAL TRADING CO., Kumbakolam). Price 8 Ar.

Mr. K. Venksturame Aiger has elready been known to the Tamil world of letters through his many translations and adaptetions of English works, such as Miltou's Samson Agonistes and Lamb's Tales from Shakespeare. This drama is another of his contributions to Tamil literatore. It is an adaptation of Winter's Tale, one of Shukespeare's comedies. The style is felicitons and charming and the author has been eminently successful in preserving the spirit of the original; the various characters have the same aeriousness or geniality as in the English drama. The names given to the characters correspond to their qualities; the language used is quite in keeping with the society to which the characters belong.

11.00 LITERARY NOTES.

" Boget's Thesaurus" is a new and chesp edition of the well-known "Thesaurns of English Words and Phrases" of Dr P. M. Roget, improved and enlarged, partly from the author's notes and with a full index, by Mr J. L. Roget and his son, Mr. S. R. Roget. (Longman's, Green and Co., 2s 6d.)

Mr. T. Fisher Unwin announces among other works a life of "Allen Octavian Rume, C. B.," and an account of his work in Iodis, by Sir William Wedderhern.

Among the books and pamphlets registered in Assem during the quarter ending December 31. 1912, was a historical research work on the Arsamese language by Mr. Debananda Bharali of Dibrugarh.

Mesers Macmillan announce that they will begin In April the publication of the Hombay edition of the works of Mr. Rudyard Kiphug in prosa and yerse, newly arranged and corrected by the author. This edition will be limited to 1,050 copies, and will occupy twenty-three volumes, two of which will appear every two mouths. The price will be one gunes not per volume, and the edition will be sold in sets.

The total of publications issued last year amounts, according to the statistical table contained in the Bookseller, to 12,886. Fiction accounts for 2,290, to which may be conjoined 521 publications of children's books and minor fiction. The next largest figure is that of theology, which is responsible for .934.

The Adhyaima Ramayana, or 'The Esoteric Ramayans, translated into English, by Rai Bahader Late Barjosth, has been published by the Paniel Office Allahahad, 1913. (Price Rs. 3)

Messra, Nelsun have published an attractive new edition of Osptain Marryat's prime old favourite for boys, and indeed girls also, Masterman Ready (Se 6d) It has eight good coloured illustrations, and a large number of ingenious drawings in the margin of the well-printed pages.

The Library Missellany, Barode, is a unique monthly edited by Mr. J. S. Kndelker, Man, LLS. being the first and only ous of its kind in Isdis. his pages are full of interesting and instructive articles. It gives us a vivid account of the work of

The Drees Review for December is full of Less Less Receive for December 19 1nd or reference to the glorious prospects of the "Model" University at Duccs. "Educational Ethics" by Professor N. O. Banerjes, "The O.J Presslag Indontry in Brogal" by Prof. Rudba Kami Mutherpes, the "Glories of Stankfit Lister tore" by Mr. G O. Mukherjes—each deserted to the control of the control

the Free Travelling Libraries of Baroda.

notice.

Mesers. Hodder and Stoughton offer priess of 2250 to lade and each Deminion for the best govel The well-known noveliet Mr. A. E. W. Mason will adjudicate in the case of India

The Home papers make the interesting encouncement that the Byndics of the Cambridge University Press propose to publish a comprehensive bistory of India, from the sarlest times to the present day, on the model of the Cambridge modern history. The work, as projected, will be completed in six volumes of about my bundred press. In a complete day of the comp compressed in six volumes for about MY conducts pages, two volumes hong devoted to each of the mein periods. Ancient India, Mahammadan India and British Heds ander the sellowship, respectively, of Professor F. J. Rapson, Lectuessist Colonel T. Wolseley Hug, L. SC., and Gir Theodore Morison, X.C.L. The various chapters in these colons and the contract of the contra sections will be antrusted to acholers who have made a special study at the period or subjects ; and the Syndios hope, in this way, to prodoce a history of the netions of India, past and present, which aball take ite piace as the standard work. They are indebted to the generosity of Sir Dorah Tata who has provided the means for additional maps sed illustrations, which will add greatly to the rates and interest of the volume.

Mesers. Jack sanounce snother twelve volumes of "The People's Books," to be published immediately. These will include an "Atles of the World" in full colour by Bertbolomew of Edinburgh. This will be the first twas that an Atlas is colour bound in cloth has erer been offered at this price. Other rodumes include. Tarkey and the Estern Question. By MacBridge, File S. Conf. Holders by Ise Ostrin, "Eyehology" by H. J. Wath, M. A. P.H.D., "Natache by M. A. Migger, P.H.D., "The Bible in the Light of the Higher Concess" by Rev. Bridge, The Conference of the Concess. The Concess of the Concess of

The ledian Constitution by Mr A Rangeawamy lyenger, Ba, ht., Second Edition, considerably cellerged and revised, (Demi Octavo, neer 500 pages) has just been published and cen be had of the Huidu Olice (Pries Rt 3)

Capita James Gunnigham Grati Deff occupies a promisent place among the authors of the flatory of India and of the Indian People Allia Hatory of India and of the Indian People Allia Hatory of India and Indian People Allia Hatory of the Author of Indian People Allia Hatory of I

Mr Maurica Hewlett has a new volume of verse apparing with the Mecanilees under the third will be selected and Other Poems' It will be welcome, for ha writes poetry with as muob force and noish has he writes prose

"Wordsworth" by E R Sneath is en elaborate etudy of Wordsworth as post of osture and man, tracing out the softweet of noted y end onlyronment npon his works Wordsworth's attlinds towards sounce long acounted, now accords with the views of modern accentific philosophy, which now a days becomes transcendental.

"Andtung, Accombing and Banking "by Frenk Dowles and Hardmor Barran, is an authorister book of real value Disgrams, figures and explanations make the andtung part quite clear; also another beauting part quite clear; also another beauting for the author bas referred wares necessary to fegal cessor. The banking rection a locid and practical, boung for clearer than in books which one remembers having andied. It should be in every houseast or all the properties of real to the properties of the control of the contro

"The Education of the Women of India," by Minna G, Cowan The increasing ettention which is boing devoted in this conety to the problams of temain adioxation renders a book of this character pecularly welcome (Masara, Ollphant, Anderson, and Ferrier, 26 64.) "Adam Lundary Cordon" This is a striking rithint by Edith Bumphirs and Boughts Sleden (Constable and Co. London) to the green of the Australian peek. Adam Lundary Cordon of Lundary Gordon is the bero and prest of Amstralia, before his fame even that of Kendell, who occupies a prond place in English literature, poles into majorileases.

"Domestic Economy" The sea valuable work produced by Mrs Catherine F Deighton who has thoroughly mastered her cubject, and writes with framese and antionity. (Hige-mother and Co.)

Indian Educational Motes

MADRAS Paize Distributions.

Enropean Girle' School, Hoyapettah—Tha snead distribution of prices sod treat to the pupils of the European Girls School Royapettah, teck piace is a specious shamman erroted for the purposa to the composed adjoilage the Cherch of the Parintailon of the B \ M There were a good combar of prices as the Archdioceas and the San Thome Missien present as also

D & M. There were a good combar et préssa of the Archiceces and the San Tome Misselm present a also the Assistant inspections of Schools, Degor and Mer Z Descours and all the percits and gradition of the popia The children sat to a sumptions the after which followed the fancilien of the distribution of prises, as which has her Paths afters What General, presiden, as which has her Paths afters What General, presiden, as well as the present of the present of the San to be bersily congratitation of the process of the Par to be bersily congratitation of the process of

W. M. Sunday School.—The distribution of prices to the pupils of the Westeran Methodias Sanday School, took place in the Westeran Chapte, Pophame School, Cook place in the Westeran Chapte, Pophame School, Georgetown The Rev J Cooling was in the cheir, end Mrs. J. R. Henderson distributed the prices.

aveoing entertainment

The proceedings commenced with the singing of a bymn and was followed by a prayer After an interesting dialogus by the pupils on "The prevention is bester than one" the dispendendent read the Annual Report,

Mrs J R. Hendarson then distributed the prime to the pupils, and gave an interesting speech Rev Mr. J Cooling congretalisted every one connected with the institution and the interesting function terminated.

Mindrus Christian Collegs School.— A pleasand metallogues belief to the Adector all, where Bay Bahadur A () Franchenthinks Jyer, Impector of Schools and A () Franchenthinks Jyer, Impector of Schools and the Adector of the Barbar Christian College School. All the stockers of the behool, including the Franchs and most die perfector, were present in their casidencial robor, or the processor, were present in their casidencial robor, or the processor was provided by the Processor and when all were assembled in the ball, Dr. Chinner began the work assembled in the ball, Dr. Chinner began the work assembled in the ball, Dr. Chinner began the work assembled in the ball, Dr. Chinner began the processor of the ball of the ball of the processor of the ball of

distributed the prises, after which he saked them to work steadily and spoke about the temporabilities of steelests. The meeting terminated with a vote of thanks to the Chairman proposed by Dr. Henderson and supported by the Rev. C. Pittendrigh.

State Secondary School, Banganaytho—The Price distribution censors of the story achoed come of the Price distribution censors of the story achoed come of or his bit history and the price School consideration of the School cons

Bt Joseph's High School, Calicus — The Javanes Day celestries on tysts disturbance at 8t, Joseph Day celestries on tysts disturbance at 8t, Joseph European Bay-1 life behood case off in the presence of protinent, the cited being covered by Hr. Norther Land and the Contract of the Contract College. The school savery testing the decreased and very instance of the Contract College. The school savery testing the decreased and very last stage that we have been been been contracted by Hr. Norther Land Bay Holl Bearing termine provident Garage and March Land Bay Bayer and Land Bayer and Land

Having distributed the prices, the Chairman made some appropriate ramarks and the meaties terminated.

The Meditas Medical College, The distribution of piets und centificate of however to popis at the Marya Medical College was performed by Ha. Excellenge perfectly the college was performed by the Excellenge perfectly the college was performed by the Excellenge for the Everyone Leiles, and prominent energy these assembled were all the college was perfectly to the college of the Everyone Dr. M. Krittasseni Lyri, Dr. M. C. Nrajanda Excellenge Dr. M. Krittasseni Lyri, Dr. M. C. Nrajanda Excellenge of the College of

P. S. H. School.—The sales rice of the Twender's Dry and tensed schools on Jyrkes of the Feesthern Dry and tensed schools of the Feesthern Dry and tensed schools of the Feesthern States of the Feest

The Assumal Report was read by Mr. M. R. Dardrewer, Diperson a. R. Manager and John Sterristy. The Darients then distributed the priese to the prise-vicent in all the forms to the High School and to its bely with compreded enceratefully in the morning appear, The pentance of the intuitation than studyed a drama far for pentance of the intuitation than studyed a drama far for any far of the compression of the compression of the angle of the compression of the compression of the angle of the compression of the compression of the state of the compression of the compression of the compression of the dark produced the compression of the compression of the compression of the dark produced the compression of the compression of the compression of the dark produced the compression of the compression of the compression of the dark produced the compression of the com

English and Sanskrit Collegs, Virsg -The distribution of prizes to the stodents of the Maharajah's English and Sanskrit College took place on the 1tth inst. in the former institution. The lanction wes presided by Mr. F. C. H. Fowler, ICS., Trustee to he Bamsetbanam. The sists of the town, including the officials and the members of the Bar were present on the socration, Rao Bahadar K. Ramenajechari, the Principal, read the reports for 1911-12 which here testimony to the good and sabstantial work done by the institutions during the year. The numerical etrangth of the English College including the Secondary department dering the last scadarulo year was 872, which iscreased to 938 on the Stat of January last. The receipts at the institution showed so journame of from Es. 25,412-2-0 to Rs. 25,121-6-5 while the charges also rose from Ra. 41,402-6-10 to Ra. 45,710 11-11 during the year under review. The College coduced brilliant results in Mathematics and Philosophy. all the candidates eent op for these branches, berief passed the armiestion. The resolt in Chemistry. Sanekrit, Telogo and English were also satisfactory Maspection the Sanskrit College the report states the the examinations for which the institution is notherised to train candidates ets (1) the Sitomani esemination is Vyaherana, (2) the Vidwan examination in Sanckrit red Talugo, the former being taken as the priocipal langues"

alleys, the further county gains at the proceedings are all in Jr. O. II. Fawire, in brighing the proceedings and the state of the county of the course of the state of the state of the county of the state of the s

The A. M. College, Madera.—The second distribution at prises of the Amazine College, Madera, we held on its 17th lottest is the Assembly Hailtheam of the College of the College of the College of the of Rescondating product, The hail was basefully decented with fage of British as well as America action and not begines. There was a large rolled in Sameet and Lady Chichelm. The proceedings copied this prayer is Teall. Too High School telescondating factors, Res. W. M. Zember, the Principle of the College factors, Res. W. M. Zember, the Principle of the College factors, and the College of the College of the factors of the College of the College of the factors of the College of the College factors. The College of the College of the factors of the College of the College factors of the College of the College factors of the College of the College factors of the School of the College factors of the School of the College factors of the School of the College of the College factors of the School of the College of the College for the School of the College of the College of the College for the School of the College of the Col Chisholm and to all these present. The function was brought to a close with the singleg of the Astional Anthem.

The Sewrashtra High School, Madura, The Sewrashtra High School Madres, presented we had seprentee on Salarder the 13th jestent, whee the spraperance on Salarder the 13th jestent, whee the spraperance on Salarder the 13th jestent, whee the spraperance on the 13th jestent whee the spraperance of the School and the Hall were will decorated and near the dails a small stap was well decorated and near the dails a small stap was well decorated and near the dails at small stap was the spraperance of the School and the Hall were will decorated and near the dails at the salar stap was allowed to the spraperance of the spraperance had been saraged for the occasion by the energetic Headmanter, and there was a large and representative pathering of gratileasen passet,

There was realistic Sensitive by from points of the Sinkin-Form on (1)The Dicityle Labous (2)Panta & Excession (8) The British Rais in Iodia, and (4) Loyalty to the British Rais To Lower School Psylls recited about action enoughns "Fay Times" "The Trais" as and three action enoughns "Fay Times" "The Trais" as a not three actions are sufficient to the Control Psylls against the Control Psylls and the Folkey "was per formed by the Title Form afforder Lazity but by no means the lasest appreciated of all was the scattles of an expension of the Control Psylls and the Control Psylls and the Control Psylls and the Control Psylls and the I Ramassary who rycke or "The British Rele is India" had been awarded the Friet Prins and M Second Prins.

This over the Headmaster cead his Report for the year ending plat lived 1912. From the Report we learn that it was chiefly through the exertions of Hearts. Venhaischtlapathi Alyar, Seinha Engawathar and others, that the Manganga Committee real ed e Permanent Endowment of Re 25 000, which now adds greatly to the stubility of this popular facilitation.

The Chairman after giving eway the prises to be various Prijes winners addressed the sadience to an interesting speech. He congratialised the Cowrashite Shabh for having successfully managed the Institution for 27 years and more and more successfully every year Though the Sovenshirus were stradiencial versing class and the same of the constraint of the contraction of the bad rightly begun to give sound education in order to enable them to antise into other walks of lift gain

The Chairman and Dr Marsden were garlanded Ms J Ramier B.A., B.L., Secretary of the High School proposed a bearty vote of inants to the Chairman and to Dr Marden.

The Headmants proposed cheers to H's Majesty the Ring Emperor and to the Collectin shad the gentlement present on into occasion, which were facility responded to With the singing of "God Save the King" the intesting fonction came to a close.

Elementary School Gardening—The Government have approved the distribution proposed by the Durector of Public Instruction of the grant of fig. 10 000 for the provision of elementary school gardens. The amount has been distributed as follows—

Ganjam, Rs 400, Vitagapatam Es 400 Godsvari, Ra 400, Kistna, Rs 350, Guntos, Rs 400, Nellore Ra 400; Bellary Ra 430; Assatapur Ra 400 Candapab Ba 400, Karacel Ba 400; Cheipferu Ba 400 The Nigitia Ra 200 Culmbitos Ra 400 Salen, Ra 400; Auth Arcel, 1a 400; Chiltone Ba 400 Salen, Ra 400; Tidelbespaly Ba 400 Seeth Arcel Pa 400 Barneral Re 400; Mader Ra 220 Timerelly Ra 470 Mather Ba 400; Saler Ra 220 Timerelly Ra 470 Mather Ba 400; Saler Ra 220 Timerelly Ra 470; Ra 400; Saler Ba 400 Barneral Mandelpally Re 70; and Matellipatum Meclicipally Ra 30

Physical Training School.-The Director of Public Instruction recorted to Sprember last that the Imperial grant of Re \$2000 sapetioned for the aducation of Europeans and Apain Indians in GO No 204 Edn callengt, dated and March 1912 is proposed to be ptl lised for the following purposes during 1918 1914 -(a) for giving emplemental aid to European Schools to enable managers to improve their teach ng staff, (3) for sterting manuel training and physical training centres toe European pupils (c) fue compensating Menagers of European Schools for remission of school fees in deserv her pepils in Primery classes and for payment of the cost of class books of poor popils and (2) for precing fully as fig. an possible the demands for boarding grants under articles 40 and 42 of the Code of Resolutions for European Schools In regard to the proposals (al. [6] and [6]). the lespector of European_and Training Pchools and the Inspectiverses of Girls Schenis fave been asking in the talwand sabmit arrilections of deserving schools With regard to the proposal (3) the Inspector of European and Training Schools stated that improvement was much needed in the physical training now given in the majority of European Schools. It was also reported that the exercises now inegit acre namely old fashioned and na satishle for children and that the intractors were generally incompetent. With a view to removing this defect and to introducing modern methods of physical eniters the Director proposed to start a central clara for thys cal tra ping to Madras under a competent instructor The Government bare approved generally of this proposal the lostication being placed under an instructor on Rs. 200 per measure on a temporary footing fus a period of five years from the 1st March 1918. It will be futeresting to know whether this school will be oven to pupils other than those belonging to the class of European and Anglo-lediana

Rammad S P G. Echool.—The Government are pleased in special a great of the sum of Rs 5.40 towards the cost of the construction of an additional building for the S P G High Schoot, Rammad

High School for Grila at Virsay — On the reconvendation of the Imperience of Grils Rebool Northern Circle Writter the location of a H ph School Northern Circle Writter the location of a H ph School Crilis at Virsay parameters accordanced. Only in School Crilis at Virsay parameters are proposed to the Control of the School has not vet been indested from England the School has not vet been neveral As a High School to grid in the burdern an expension of the High School to grid in the burdern an expension who his the headquarren in the irreporters, so that the achieved might be made at the Gos presents that the achieved might be made at the Gos presents and the proposition of the School might be proped in that district using to fix existed position and the accordance for the Control Control

would be considered on the experiment at Virappatam proving a success.

98. Joseph's School, Bulkary. The authorities of the 81, Joseph's European Roys, School, Belley, between permitted to adopt the alleteative site proposal for the school system and the resides stimets has shee been approved, beaution has been exceeded to the permet, because the second of the state of the second proposal state of the school system and the second proposal site in the actual proposal representative to demonstrate the second proposal site in the school second proposal site in the second proposal site is the second proposal site in the second proposal site in the second proposal site is the second proposal site in the second proposal site is the second proposal site in the second proposal site is second proposal site in the second proposal site

Training Students—The Government of Madras bare associated the proposal of the Director at Poblic Instruction to serend the payment of the special allowance of Re. 18-5 sectioned stready to the students of the elementary grade under training in Government training schools, who are in receipt of e stipend of ninerappes.

Eliver Jubiles of R.V. Z. Hannau hackeria.
The past and press in inches is the Mehrs plot Cape
assembled is large senders in the College premise as celebrat the Eliver Jubiles of the Principalini of Ros Bahnder R. Bennaujacherie, M. A., B. L., W. D. The Vennath Principal was based in procession from his breast and Principal was taken in procession from his breast the signal for much entherism second the active of the signal for much entherism second as actives, M. N. Saban Bar Destrict present of the signal and wrate were social by Fencia, as Advisor were seed and wrate were social by Fencia, as Advisor were seed and wrate were social by Fencia, as Advisor were seed and wrate were social by Fencia, as Advisor were seed and the second of the College. After a few speeched by some past and seat, fine Bulader R. Remengia benefit regulad is ditting term, Mr. N. Schole Hocharte regulad is ditting term, Mr. N. Schole Hocharte feet and the second of the second of the Almitghy for long He as Mr. International contribution, we see thinks to the Chalmon to be meeting terminated.

A favowell entire takinment, —The station's part of press of the Hundrich —The station's part of press of the Hundrich — School —This plant, assembled up Saturday, the 5th fastant, in the School — Hall, do presses a ferewill offeres to Mr. A Hundrich — Assistant of the Sinth Form on the err of the deporture to Pattenneds, the take on the part of the Hendmarts of the local fliph School, with the Herdwell Pit. Y. S. Stalams Local fliph School, with the Herdwell Pit. Y. S. Stalams and the Hendmarts of the School, with the Herdwell Pit. Y. S. Stalams and the Hendmarts of the Hendmarts of the Hendmart of the Hendmarts of the Hendmart o

The B G. College and Schools, Trichlopoly, The 180th Assistency Festies in the S, P. Q. College and Schools as Trichlopoly took place recently is a meaner quite beling the subject occursion. The Parameter of the State of the Parameter of the State of the State

The Fresidency Collegs Malayalam Semijam.—The Analestrary of the Presidency Colleg-Rivayalam Samsjam, Madess, was celebrated with great seles in the Presidency Collega Hell, The Howls Jautica Sir C, Sankeren Neil presided.

After the annual report of the working of the Sampion during the past year was read, the Houble Mr. K. P. Raman Menon delivariad, cloture on "Data". The San De Mr. Raman Response also spoke on the same subject. Attar an interesting speech by the Chairman of the depressment of Vernecular Heralore, the meeting terminated.

Murani High Sobool "The High High Shool, Neural, famed to 1905, is clong recitable was streeting great credit on Mts N. Ramawarn Jyer. Jan. 25, the Harry and Chandrage of the Harry and Additional The streets of Hardman's could be able on the Harry and Harr

The Muslim Etherary Aspolation—There we shave a transcent, such table steps a transcent, such table steps a transcent, such table seamed meeting of the Muslim Literary Association and the seamed meeting of the Muslim Literary Association and the state of the seamed transcent and the seamed transcent and the seamed transcent and the state of the seamed to the seamed Muslife, the Barker, Marke Barker Gubban Musler, Marker Barker Gubban Musler, Marker Barker Gubban Musler, Marker Musler, Marker Gubban Musler, Marker Musler, Ma

The Doveton Protestant Collage and Girls High School - The Annual General Meeting of subscription of these institutions was held in the Doveton College Hail, Vepry. There were present Captain V, J. Stages, 1, 8, 8, 10, (righted), Meers, J. B. Atticoop,

(Honosery Secretary), J. W. Hey Ellis, James Sevi. George Maddoy, K. C. Thomas R. T. Tacher W. B. Stages, E. L. Taylor, C. W. Vagas F. Lawen A. J. Behern and J. R. O'Atll and Antiants Engreno's Sec. Behavior of the Company of the Company of the Company Maddor, seconded by Captain V. J. Singgs No. J. W. Hay Ellis was voted to the chair The beares of the meeting opened with the consideration of the Report on the working of the Lantitutions for the the Report on the working of the Lantitutions for the

The next ambject was the election of three members of Committee in the place of Meser James Rhort E. L. Taylor and Captain V J. Sizga, who reture in rotation but where eligible for re-election. It was proposed by Mr. F. Leoni seconded by Mr. E. C. Thomas and carried "That the three members of Committee who reture in rotation be re-elected."

The Tamil Acadamy, Madras.—At the meeting of the Academy held in its premiter, Satavatanun, Krishnaswami Paraler delivered a lectors on Saga pularar Mr C. R. Namesways Modeliur presided over its meeting.

The Midding Taschers' Guild.—A recture of the litery and Goograph bettion was held as the fitted High School, Tripicions with Mr. & A Vierrephens. Description of the control of the S of the school was control of the said the top the school of the control of the control of the control or the destinant of the control complete the band to the destinant of the control to replies the board to the destinant of the control of the report of the Chird Examiner of every year for the control of the Chird Examiner of every year for the of thanks to the Chirf, the metellor teminated.

Corporation Model Hamanatary Schools - The first at the Einentary Schools of the Corporation flatins was opered on the 4th Instant at Vallaba Argharam, Turnstenswarept. The rates of fease as most nominal lanes for the tofast, 2ss for the 1ts and 2nd Sandont, 3ss for the 1ts Standard, and this and 2nd Sandont, 3ss for the 8th Standard, and this property of the 1ts of the 1ts Standard, and the 1ts of the 1ts of the 1ts of the 1ts of the things (chiefly carpettry) is a special feature of these schools exempts school: The sprinte end nighest schools the neighbourhood will be absorbed in these schools

The Council of Netive Education, Madres -The Council of Native Education, Madres, termulated e scheme for the spread of clamestary education in this

XIX

Presidency and substitute to the Government extrainproposals for the furthermore of the actions together with replies received by the Connect of Native Education from District Table Boxels and moderal Medicipatities. The Government, in reply state while appreciating the current state by the Connect in the matter thay consider uses, baring regard to the magnitude of users involved uses, baring regard to the magnitude of users involved and to the Intrinsic autren of segrecies at the disposal of the Council. On these grounds they regret that they do not feel justified on making the grain applied for They will be glad to avail themselves of white words and assistance of the Council of the Council of the Council of the Council of the will be glad to avail themselves of white who while no of the Council of the Council of the Council of the Council of the will be glad to avail themselves of white who while no of the Council of

The Assistant Manters' Association, Triching, poly —An ordinary meeting of the Association was beid recently to the premiers of Aryan Secondary School with Mr P A Ganesa Iyer, BA, L. T. of the St. Joseph's College, in the chair About thirty members ettended The proceedings of the meeting commenced with a resolution to send e congratulatory letter to the Hoo ble Mr V S e congratulatory letter to the Hoo ble Mr V Errorwan Sastrar B A, LT, on his cley St to the Medras Legislator Council and e letter of thankfolness to H E Lord Pentland for his numeration. This was followed by a very lively discussion leating for more than two hours on the desirability of limiting the working hours of teachers in Lower Secondary forms and Primary classes, in which many members took on active part. It was pointed out in the course of the dis custion that teachers to the lower classes have a very real grievence and work for loog hours, the sixth ver od being a slow swielde. They are not now in the same footing as they were ten years ago, their work and responsibilities having increased consider obly awing to the introduction of the School Final scheme which, with its marking aratem and preparation of notes of lessons, has been taxing their time energy and nationen Bes des, there is constderable overstrain in the lower classes detrimental to the anterests of boys and teachers of ka. School work for lower class children should not be the came os that for the higher Their curriculum should be simplified , nor does elementary ecience ne geography require any elaborate syllabus. Simplicaty and thoroughness must be the aim school fees have been enormously raised, but this has not resulted in a proportionate improvement to the salary or lessure of teachers who are of present eil but orglected, though they form the key atone of the school organisation Public upinion must be created against this grave injustice and if e Government abould be requested to liberally help the menegers. This long and interesting discussion was brought to a close by the quantmous adoption of the following resolution .- The Arristant Masters Association, Trichinopoly, is bumbly of opinion that pupife and teachers in Primary classes and Lower becondary forms are over-worked and begarespectfolly to sobrus to Headmasters. Managere and

Educational authorities that the working hours of Primery classes and Lower Secondary forms be reduced to 4 and 4½ respectively and that the teachers he not given more than 4 hours daily work.

BOMBAY.

Poons Agricultural College.-His Excellence the Governor in Council has decided that there should be e standing advisory committee in connection with the College of Engineering, Poons. The function of the committee will be to edvise Government on questions of policy, organization, staff, buildings, aquipment, formstion or recognititation of classes, corriculars, sules of admission and any other assists connected with the College regarding which Government may require its apicion. As the Committee will be closely associated with the College and will visit it periodically, it will be in e position to take the initiative in engresting improvemants and reforms in respect of the above metters. The committee will consist of ning members as follows:-Diloiel members :- The Chiof Engineer and Secretary to Government, Peblic Works Department; the Director of Public Instruction; the Secretary to Gurarament, Educa-Tanin introction; ten occurry to Ourseposes, Educa-tional Department; the Principal, College of Engineer-log, Poons; Electroats-Colonel W V. Sondamore, R. E., Seprimbroding Engineer, S. D. Non-Officel members;— The Locomotive Superintendent, O. I. P. Bulwey; the Engineer in charge of the Tata Hydra-Electric Warks, Locaria; the Principal of the Victoria Jeblies Technical Iositists, Romba; and the engloser of a selected Bombay Cotton Mill,

Bombay Educationists' Conference.—A three development of Discussion and Debug Tanders Bother Tanders Association Mr. J. Buth. Per and the Conference of Discussion Mr. J. Buth. Service of the Conference of the C

The Alexandra Girls' Institution.—The lellowing letter has been received by Mr. C. M. Garreif from Six W. Weddenburn who at Mr. Conneigh's request had a copy of the John perspectes of the institution in gentica placed before H. M. Queen Alexandra.

Mailbernogh House, January 4th, 1913

DEAR SIR WILLIAM WEDDERSET

Lara submitted to Quoca Aleanous possibility and the Statisticated [If foresteding capies as possibility as Experts of the "Alexandra Nature Guril English Borrhay and the Sublish prospectics of Non-stobed Lara and entired by Her Maissay, to say that this wears at the Jastise which it to be colderated in Harsh Borra at the Jastise which it to be colderated in Harsh Borra processes the submitted of the Statistics which will be considered in Harsh Borra processes as the submitted of the Statistics which will be considered as consideration of the Statistics which will be submitted to the Statistics will be submitted to the Statistic

so be good ecough to convey to Mr. C. M. Corselji sod the Directors her sympathetic approval of the price which is a contemplation to develop female education is leadie and to express inclines and to those who are so generously supporting the movement Her Majorty's success hoose for the further success of the action.

I remaio, etc

HENRY STREATFIELD, Celoud,
Privato Secretary.

Bombay Matriculates and Special Tests.— Persons who have passed the Metriculation cremittion of the Bombay University and are in the Pablic Service on or before 31st July, 1913 will be eligible to appear for ony Special Tests to which Bombay Matriculates are now permitted to appear.

Scholzyship donstion—III Bighness the Thalves sheb, the price of the Limbd Stete, with a view to consectorate the section-collected Stete, with a view to consectorate the section-collected Stete of Big the Agriculture of the Stete of Ste

DALCUTTA.

Women's education in Bengal - The Christ Gettie contains the following Establish on the subject of a "Female Education Committee for Ma Bengal Presidency":-

It is of great importance for the future of the Bengal Presidency that a well considered and progressive point for the education of Indian girls chould be fremed an efferwards extensification in an amount guing enough to remote our The methods and practice of the two portions of the province, raunited on the let of April last differ a transcrib to going important reasons. present to some important respects. The best feature if each system require to be earefully selected and the experience of the past to be supplemented by a review of recent developments and thanges in conditions. The important and deficult task one be ancressfully accomplished only with the considered advice and ectivi co-operation of percons who are employed or are other wise interested in the education of girle. The Goretment of Bengal hars decided with a view to second this co-operation and advice, to eppoint a committee, which after considering the subject to all its main bearing. will I amo a general scheme as a basis for fotore progress His Excellency in Council further proposes that the members shall altimately form a standing committee which like the similar committee which formerly arising in Eastern Bengal and Assam, will meet annually for the urpose of advising the Government on the progress the scheme end on its modification and describeration

The composition of the Committee will be as follows:
Mr. R. Matham, O.S. a. C.L. Pretident; the Director of
Public Instruction, Bennest; the Jipon bin Mr. J. G. Craming, C.L. a. Commissioner, Presidency Division; the

Sanskrit learning in Bengal -The Uniculta Gasetts contains the following Resolution dated February 10th -

Several important questions relating to measures for the ancooragement of Sanskrit learning bavo come under the consideration of the Government of Bengal The Conference of Orientalists, held at Simia in Joly 1911 medo proposale for the promo tion of ancient and indigenous systems of learning. to which the Governor in Council desires to give preculal effect. The time has come for reviewing the constitution and fonctions of the Sanskrit Examination Board, which was established in 1968 and to still up a temporary footing. A scheme has bean aubmitted to the Government for expanding the Decca Sergawat Same) into a more widely organized body which should aid nod advisa tha Government in ell matters connected with judige nous Sanskrit studies in the eastern districts Dacca University Committee have resed the question of the creation of a department of Brah manic studies in the Sanskrit College on lines enmilar to those proposed for the department of Islamto etodies in the new University Lastly, the recent territorial redistribution makes it necresary to compare, and, where desirable to coordinate roles and prectice in the two portions of the province.

The Governor in Conocil has decided to convane a conference to advise on the difficultand important problems which have the erisen and to deal more emecually with the following questions:—

(1) whether separate organizations should be remaied for the reconvenents and control of Smakers learning at Calcutta and Deca, or whather a single organization with its centre to Celcutta should sarrye the whole province;

(2) what should be the constitution and functions of this organization or of these organizations;

(3) whether any substential reforms are required in existing systems for the grant of titles, stipsods and rewards;

(4) what should be the policy of the Covernment in regard to the encouragement of tole, (5, whather a department of Brehmann studies combined with instruction in English should

be established in connection with the Sanskrit College

The constitution of the Conference will be as follows -

The Pandus from Biber and Orssa and from Assam have been corrected with the parameters on the Local Correctments concerned, but they are not official delegates, and the Conference is convened prometry to deal with the situation in the Bougal Presidency.

cet cir -Secretary

Ripas Gollege—Illa Excellency Lord Germichal accompacted by the Boo Mr. Conklay and the Hon Mr. Kachler resisted Ripon Oollege His Lecthlany was received at the gate by the Bon Lecthlany was received at the gate by the Bon Chacan tal Estader, Mr. J. Chowdburn, Frincipal Teredinand the staff. A soon as Hie Excellency slighted from the motor car a great of hundry like the terminal than the staff of the staff of hundry slighted from the motor car a great of hundry like kachlency then inspected the classes, both in College and m achood departments and took special interest in the practices when which was being done interest in the practices when which was being done like Freelings kindly nutried of Bato Sarcotta. Such Bacceryse how the College Buildings' Funds had progressed as the Ouvernment of Bengin promised at domainm of Ra 50000 twends; its expenses of domainm of Ra 50000 twends; its expenses of domainm of Ra 50000 twends.

Distribution of Prizes, Brahms Girls' School — Sir Lawrence Jenkins Chief Justice of Bengal presided at the prize giring veremony of the Brahms Girls' School, held recently in the specious hall of the Institution in Upper Circuler Boad The achool hall which was testefully decorated with foliage and flowers, was packed to its utious capacity with parents, gaurdiams and friend of this pupils, including European and Indian lades and goulamen Lidy Jenken who was presented with a headness flarish quelt kindly greet ways the present the programme uncloded a series of vocal soft incremental team bender recruitors in Deglat, Bengali and Stocken. The Obleve critical in Deglat, Bengali and Stocken. The Obleve critical and device with an enthusus the reception. An English Action Bong. "What's the matter," a Bengali action poor, and intrimental must on the State and Erraj, were well reddered by the girls abo were greeted with heavy rounds of applices.

S. C. Intitution — The fith annul commemoration and dissibution of prizes of the Klysma Chart Institution took place on Saturday the 15th institution took place on Saturday the 15th institution took place on Saturday the 15th institution of the 15th institution of the 15th institution of the 15th institution of the 15th institution attended the meeting. The building was tastfully denoted The meeting command with serious songs. The Secretary read solution of the 15th institution of

Bengal Alistic Society.—At the snual meeting of the Asiato Society of linguil it was reported that of the Asiato Society of linguil it was reported that a state of the Asiato Society of linguil it was reported that and the Asiato Society of t

Board of Seeikrit Conversation.—The first Conversation of the Board of Seeikrit Exeminations to confer titles on Sandern students was beld at Calcutta our Jenusey 23. Toe degrees were conferred by line Kretelleony Lord Cormitoned who was fin the chair. Sir Ashauch Mockeyie., the Fresident of the Baard, delivered a longing address.

Director of Poblic Testrection.—Three has been a strong agustion in Brogal against the remoured intention of the Government to appoint some one cateful to be Indian Effectional Service to the post of the Director of Poblic Instruction.

ALLAHABAD.

Prire distribution: The Municipal Board Schools -- Recordly rise second ennead and prised second to the shiften of Municipal Bard Schools came of Children from agreen Bays and fung Grib schools seemed to the Kung Bard.

Pack There was drill competition and many achools entered for the same. Under the instruction of their respective drill mesture, they preformed karret and damb bell drille, ood Mr. Mileted, Headmaster of the Boys' High School, seted so umpire. After the competition which lasted for sa hour and a querter commencing at 12 noon, the Municipal Commissioners and the school children assembled under the shimians, which was specially erected, and Mr. C A Mumford took the chair. Mr. B. P. Mobus, Chairman, Educational Sab Commritee, personted the school report which showed that between 1912 1913, there were 1,360 children under instruction, menned by \$8 teachers, and one Inspector of Schools. Rs, 18.030 was spent for the year 1911-12 and 22,000 was budgetted for the year 1912-13. The report regretted that the schools had all been in rented buildings, and they found great difficulty in getting good sites at various crotres for building schools of their own. In conclusion Mr. Mobus thanked the Municipal Chairman for his interest in education and the teachers and the Inspector for their whole-hearted work during the year.

Chardevil Chool — The encest prize distribution of the Shyan Sunder Memoria Illah School. Chardevil, cerne off recently, Mr. Lepta Presided and Mrs. Lepton great sway the presided and Mrs. Lepton great sway the property of the state of the

for the will-being of the school.

The Anglo-Bengell Ethnol.—The assond ansiverary and pran-dustribution of the A. H. School.
Beaness, was ecoborated reconfyrander a life fairly and the school of the common series takefully decorated on the occasion less than the school of the scho

being given deily

Urdu the pr zee were given away and the proceed ings came to a close

Government Exeminations, Allahabad —The Preliminary Scientific Diamination for the dagree of Bachelor of Medicine and Bachelor of Surgery will be held at Allahabad on Munday, the Sth September, 1913 and following days comments ung at 10 A. M. each day one paper as far as possible.

The intermediate examination at the Albabeed centre and the B A and M A Final examinations of 1913 will be held at the University Scauce Haff albabach The B Sc M So, Persons and Pinal and the M A Previous Examinations will as most be held at the Mary Central College Albabach with the Albabach control will also be held at the Hower at the Albabach control will also be held at the Universary State Hall Allbabach

PUNJAB

A Residential College -The Residential College which is to be built at Delhi by St Stephene College is to cost about £33 000

Dr Boses Lectures — De J C Bose the emment Science Professor, Presideory College Calcuts will delivar a concess of three lectures on estemifie subjects in the University Hall Lubors The lectures will be attended by experiments and are in tended for the benefit of graduates engaged in reaseroth work or special studies.

Girls School for Delhi — Her Richness the Roym of Bloops write as follows — My proposed rathe establishment of a Girls School in Delhi an commonwerston of the anapyenous visit af their Imperial Majesties, was published in the Times of Jarica and several other papers as ometime in April last year 1 now take the opportunity publicly for thank the Beguma Maherana Ranas and other minent adders for their kind supplied pur of animon the second the second public than the property of the second public than the public than the public than the public than the canes. The sames of them have kindly promised finencial help are given below !—

50 000 H H, the Nizam H H the Maharani of Gwaltor 50 000 H H the Downgar Maharens of 1 60 000 Gwalior 3 000 H H the Begum of Janjero 2 000 H H, the Rant of Raigarh 3 000 H H. the Ram of Narsingarh B 000 H H the Rant of Dhar 7000 Quesar Dulahin Sahiba of Bheps! 5 000 Shahryar Dulabin Sahiha of Bhopal 5000 Shab Bano Begnm Sabiba of Bhopaf Bir Valentine Chirol, of the Times London

Myself

1.25 000

MacDonnell High School, Jhansi—The annual press of stribution to pupils of the MacDonnell II ghe School came off recently. The school ball was tastefully decorated for the occasion and there was a large gathering of Farupean and Indine genile men consisting of efficient and the gentry Mr Siberrad, the Galleton was in the party.

After the Report was read there was recitation by the boys. The prizes were then distributed by Mrs. Silberrad.

MYSORE

Mr Namundayya . A V School -Tle prize distribution ceramony of this school was performed in Unddanna Hall by the Loversta, who in spite of pressing engagements was pleased to be present, There was a distinguished gathering on the days From the report read it is evident that the school hes been turning out neiformly good work. The echool was started ten years ago to commemorate the memorable event of the lestallation of H H the Maharaja The beginning was oet encooraging but the founder Mr Nanjundayya peracereed in his efforts whole heartedly and steadfastly Thn etrength ross gradually and to 10 years it came on to 800 That is a record of good pregress It is no small credit to Mr Nanjeedayya the Maoag ng Proprietor who had to find the meens to keep up the growing institution The echool le a livieg complete what a public aprinted and add denying person of the type of the founds can eccompleb. The echool has a Covernment meethly grant of Rs 75 and a Menuc pal grant of Rs 25 a month After making the ewards the luvereig gave a speech in the course of which he said, We see that this educational matitut on was opened by Mr Nan mideyya at the instance of the poblic of the city to meat a real wast. Time has shown thanks to the lottrative and the philanthropy of Mr Nan jondeyye that the acheel has been a wall thought out and deserving institution in that it stands today as the largest school of its kind, in the province with nearly 800 buys on the roll. In the days when admonition is to the front and the Gev eramens are making liberal efforts to bring knowfedge to avery bome private endeavours of the description cannot too highly be appreciated gratitude of the public is due I think to Mr S R Nenjandayya for his public apiritedness in found sog this school and my brothers and my own appre custion for associating it, with His Highness Installation The action examination results seem to be gratifying and the general management of the mat thum estisfactory The most pressing want of its por osea and it is encouraging to hear that the Manucipality have promised a helping hand in this direction. The analitation is an enterprise that is worthy of recognition and I wish it all anccess In conclusion it has been a great joy to me to have presided at the prize-d stribution to the boys of this institution I give them my good wishes and I thank the Managing Proprietor, the teaching staff and you all for your bearty reception

Students' Literary Union—Mr. J S. Chakraviti M. A. 78 ab., the Comproller and Francesi Secretary to the Guvernment of Mysors, presented and extens a conference of the Chartel Kollege, for the ball of the Chartel Kollege, for the ball of the Chartel Kollege, for the ball of the Chartel Kollege, for the Montrel the London Musica High School. The decourse, which was on English Literature," took place under the amplice of the Students' Literary and Antible Union of which we abstract appears in

The Indian Institute of Science -The following extracts from a recent report on the 1911-12 Session of the Indian Institute of Science will be read with

interesti—
There have been no changes in the Court of Visitors. But as under section 13 of the Regulations, the persons first appointed by the Vice-Patrons racate their effice on the 31st March, 1912, the following fresh appointments for a further period of five years have been made by the Vice-Patrons.—

By His Excellency the Governor of Madras.—The Separinteedent of Industrial Education in the

Seperinteedent of Industrial Education in th

By His Excellency the Governor of Bombay-The Ron bis Justice Sir Diesbab Dhanjibbas Devar, Kt, Barriatar at Law.

By His Bosonr the Lieut. Covernor at Bengal -The Hon ble Mehersjeb Menadra Chaudra Raedi of Commbanar.

By His Hesour tha Lieut-Governor of the United Province.—The Hon bia Rei Sander Lil Bahadur, EACUE.

By His Honour the Lieut Governor of the Punjab The official member representing the Government of the Punjab on the Imperial Legislative

By the Chief Commissioner, Central Provinces,— The Hon'ble Rao Babadur Bangasath Naresingb

The Ron'ble Rac Bahadur Bangaeath Naresingh Mudbolkar.

By the Agent to the Governor-General and Chief

Commissioner, North-West Frontier Provinces.Dr. M. A. Stein, C.I.B.
By the Chief Commissioner of Coorg.-W. M.

By the Chief Communication of Coorg. W. S. Ball, Esq.
By the Chief Communication of Aimer-Merwara

by the Chief Commissioner of Ajmer-Merwere —

O. W. Waddington, Esq., C.I.E.,

By the Agent to the Governor-Ocneral, Baluchis-

tan.—Khan Babadar Borjorji Dorahji Paiel, C.E. Pret, J. J. Sudhorough. D. Sc. Ph. D. ric., baa become a member of the Court of Visitors in second.

auce with Section 9 eleventhly of the Regulations.

The Senate have nominated Frof. J. J. Indebrough to be a member of the Conneil. The Cours of Visitors elected Mr. A. Chatterton and have re-elected the Houtha Dr. A. G. Bourse, who had caused to be a member of the Council in accordance with Section 16 of the Regulations.

As reported in the unicodesion in the Second Annual report of the Director to the Council of the Institute, the First Bession opened on the 24th July, 1911, and before the end of that month 17 atudents years at work is the various laboratories; 2 students

joined in August, and 2 in September, and again 3 in January, 1913. Of the total number of students admitted 19 were University graduates and they may be classified as follows:—

		BA. or B.Sc.		MA. or MSc.
Indres University		2		1
Bombsy Calcutta		4		7
		1		2
Allahabad		.,, 2		•••
		9		10

The non-graduates had received their training for the Victoria Inblied Technical Institute at Bombay. Under Section VIII (1) (c) of the Bys-laws, all attdents were admitted on probation, and two ware rejected as it was found that they did not possess andicient knowledge to canalle them to profit by remaining at the Justitute.

The ultimate distribution of the students was es

Applied Chemistry Department ... 10
Electro-technics ... 10
General Chemistry 7
Organic Chamistry 7

TRAVANCORE.

The Travascore Trachers' Union—An inflare is Geometre bas been formed with Mr. C. Tracher Principal, Scott Christian College, Negarodi, so Chairman et De G. F. Dirker, Principal of the association to be called "The Travascore Tracher Union". The other members of the Committee are Mesers J. Szephingon, Professor of IPsystel to the Mesers J. Szephingon, Professor of Trystel to The Constitution of the Committee are Mesers J. Szephingon, Professor of Trystel to Tracher Committee are Mesers J. Szephingon, Professor of The State Tracher Committee are Mesers J. Szephingon, Principal, Tracher Committee are the Committee and American Committee and Committee and

The New Professor of English —Mr. Duncan John Stone, M. a, is the newly appointed Professor of English in H. H. the Mabersjab's College. Triv androm. Mr. Slose has been prior to his appointment, bolding the post of Deputy to Professor Vauguan in the University of Liverpool. The Durbar are to be concentralisated on the acceptation.

of a man of Mr Sloss's shilities, for the Professorship of English, in the College

A Public lecture — Under the sommers of the Public Lecture Committee Mr L C Hodgeon, Mr A Principal of E. H the Maharajab's College for Boys, delivered a learned lecture on the "Esturan in English Speling" in the Victoria Johise Town Hell. Dewen Bahadur P. Rajagopals Charsar presided

Foreign Potes.

Indian Students' Law Library Mr Mallet opened the Indian Students' Law Labrary at Oromwell Rose and Commell Rose and Commell Rose and Commell Rose and the Wrother Compress 720 years and the Commellation of the Comment of the Commen

Mr Mallett totimated that while at present the Library was cooled to law, gifts relating to other branches of atndy would he gladly welcomed

Sir Thomes Releigh emphasised that the know ledge of the practising herrister must be superior to that needed for exeminations

Indian Students at Rainburgh — A recent meating of Indiae students at Edinburgh passed a resolution strongly protesting against the reported decision of the folios (filter by place them noted to guardinating decisions) the folios (filter by place them noted to guardinating on their part to take care of themselves but also as a reflection on the disciplinary vigilance of the University. The resolution also expressed the thogo thus attinuous to prevent the independence of Indian students from official juderference.

It was resolved to notify Lord Grewe of the Resolution,

Indian Students in England — At the Fourteenth Annuel Cepton Dinner in London held in the Hulborn Restaurent last month, there was a distinguished guthering present. Mr G S Schneider of Ceylon, presided and in the conrect of his remarks dwitten the disabilities of Hodisms in connection with their admission into the Universities and Colleges

The English Association —The Annual General Meeting at the English Association was beld at Distressity College Gower-Street, Mr. John Bailey presiding. Mr. Baifonr was elected President and Lady Ritchia the returning president) and Professor G. L. Kuttredge were added to the list of Vice Presidents.

The report of the Executive Committee, which was edopted, satisful that the Americation had main stanced the progress in its work doing the year control of the progress of the work of the progress of the secondary of the second

The presidential address was read by Mr E G von Glebo

The Association held a conference at the same place when the Rev Dr Naim (Headmaster of Merchant Tajfors' School) preside and papers were given by Mr Percy Simpson on "The Value of the Plain Text in the Literature Leston" and by Mr A J Splishury on "Prose Teaching in Schools"

Historical Association—The Saventh Annual Mening of the Historical Association was held at Loudon University Professor Spenser Wilkinson gava au address on "Some Lessons of the Wer in the Balkan."

SCHOOL AND COLLEGE SPORTING NEWS

The Presidency College Football Tournament.

LAW COLLEGE US PRESIDENCY COLLEGE.

The match between the above teams was pleyed

on the Presidency College Cricket Grounds. The Lawyers of whose real form little or nothing was known, on account of their not having competed for any of the recent tournamente, played under tha nuspices of the M. C Athletic Association, and put up a splendid fight, as will be seen from the fact of their getting beaten by only the odd goal in three. Composed so the team was of men who had most of them made their mark in the several Colleges from which they respectively graduated, thour creditable performance was after all no matter for wonder, but all the same, that they should been played really so well, without any the least practice was cortainly remarkable. The Presidency had a distinct ad-cantage over their opponents in backing had three hardworking halves who all understood their work for while the Law Helves were merely content with defending their oltadel, leaving their forwards to look siter themselves as it were, the Presidency Halves not only did the parely defencive work to perfection, but made it a point to est their forwards constantly going. It was this thing that not only made the Presidency attack look really more dangerons than that of their opponents. but practically won them the game se well.

THE CHEISTIAN CULLEGE CO. THE MEDICAL

The above teems aus on the Presidency College Corlect Grounds the Mediceae, in parts of the secret disadvantages, put op a plocky fight and were bestee by only one good. For the herby have meanly bestee by only one good. For the herby have meanly Matholia and good keeper Ramon, all of whomplyed necedingly well. The good that coabled the Obritisms to win the match came amendance to the middle of the Ents-ladil, being for result of a combined ron between Ambroan and Navayanan, and the production of the combined of the Section 1997. The combined was the coable of the combined of the production of the combined of the production of the combined of the production of the produ

THE ROTAFURAM MEDICAL SCHOOL et. THE

Madsaca LAzam.

The match between the above teams was played first on the Presidency College Cricket Grounds and coded in a draw. It was replayed again

on the Medical College ground with the result that the R M.H.S. were left winners. PRESIDENCY COLLEGE ve. WESLEY COLLEGE.

The semi-finel of the above Tournament played on the Presidency College Cricket Grounds between the Presidency and Weslayan Colleges resulted in a victory for the former by three goals to anc. The

game took a feet torn from the first. Hoon after commencement the Wesleyens chisiced a lead. The Presidency forwards then attacked botly and besieged the visitors' goal and Srinivesa Rao the inner left who twice found himself in close vicinity of the goal delayed to shoot and missed the ohence of scoring. After about quarter ut on hour's game tha Presidency equalized Sies Presad the left helf-back dropping the ball from a long range which the keeper defended after it had crossed the goal line. The Presidency renewed the attack and Sripitare Rao receiving a well-placed center from the right sent the ball over the goal. The Wesleyers for s time carried the game to the opposite end and the Presidency keeper was once or twice called upon to defend the goal. Cluse on helf-time the game was conficed to the sisitors' end and Kumereswami the inner right of the home team scored oot of a scrimmage. When helf-time arrived the Presidency were leading by a goal,

After crowing over the Wesleyaus mids a vigorous attack and pencirated to shose quartite. Anatherarysmen the outer left getting, a wall-timed gas from the inner seet the hall out, and the state of the

CHEMITAN COLLEGE CA. ROTAFORAM MEDICAL SCHOOL

The maich between the above teams was played for three days in the Presidency College Cricket Oronode. The Christians second an easy eletory by three goals to nil.

Pennyeuick Tournament.

The above Toprosment for which six teams had competed was played by the Wesleyan and Medical Colleges The Medicore who did not appear in their foll strength as three of their best men were unable to take part, soffered a rather crushing defeat at the hands of the Weelsyans who were on their hest form The Westryaus winning the tons elected to bat and compiled a Sotal of 240 runs, the noteworthy feetuis of their innings being Ballab's maiden century ecored in grand style. Ekamberam and Seshayya made useful contributions of 26 and 24 runs respec tively. The Medicoes made 131 rons, Stricklend who was the chief scorer displaying finn batters skill for so unfinished 52. With a lead of 110 runs on their first innings the Weelevans entered ca their second venture and made 133 runs of which total Balish and Madbeva Prasad were responsible for 31 and 23 runs respectively. The Medicoes who had to make 244 runs to win collapsed miserably in their second innings being only abin to put up 60 rons Loganathen 20, Suckland 15 and Anantara man 11, heing the objefeoo getters. The match thus torminated after them days play in a decisive vie toey for Wesley College by 183 ross

PRESIDENCE COLLEGE DE CHEIRTIAN COLLEGE

The final match of the above Topresment was played not between the Presidency and Christian Colleges on the Presidency College Oricket Thern was a large cound assembled to witness the match which was keenly contested and resulted eventually in a bard won victory for the Visitors by 2 goals to onn

The Presidency took up the aggressive from the stact and by these combined efforts thour forwards found their way to close quarters and Srinivasa Ran the centre forward shot wide of the posts. The Presidency ecnewed the attack and Lumacasame and Gonalewams by dint of clover passing penetrated to close proximity of the Christian goal and the former acceed the first goal of the evening Eo cooraged by their auceass early in the game thin Homesters kent on the pressure on the opposing defence and obtained a couple of corners which week not, however, thened to good account. The Christians soon began to play up and Ambeose, the centre forward made a dashiog ran sod cerried the bell to Presidency territory. The Christians were awarded a penalty kick as Bamassmy, onn of the Presidency half backs, fooled touds the penalty area and Desikacheer the Christian back scored me ty and thus equal sed matters. Play grew more exciting thereafter and both ands were frequently visited. Towards the close of the first half Gonslawami the Presidency onter right, sent to some good centres, which were not however offlised. At half time the score was one all

After crossing over the Christian fornarda mada a vicorous attack god Ambrose the centre forward, and the inner left gave the Roma defence frequent teophie When the game had been in progress for shoot ten minutes Sriramuln the Christies outer right, sent a finely placed centre and a weles enamed hear the mouth of goal and Ambrose scored. The Cheistiana axon folloned with another bot it was disallowed as one of their men was declared to be "off side" The Presidency made atrenuous endeavoure to equalize and Srimivasa Ruo who made a amaet eun shot thu hall out when nearing the Christian goal Soonsfree Copsiaswamithaleontee right sent a nicely placed centre but Narasimma Bao, who found himself before an upon goal deficted the ball over the goal Tonards close the Presidency obtained some corners none of which was productive and when time was called the Christians came out winners by 2 goals to one

Wesleyan Minaton High School on S P G

Bion School-

The second match in the first cound of this toners ment was that between the above teams played on the Pickwick ground The Wesleyans, though the Pickwirk ground XIX

they failed to make much in either of thele innings. basing totalled up ultogethee in their two innings only 118 encs managed to brat the S P G who had unfortunately a poor team, by the hendeome margin of S7 maa Taking first knock the Wes leyans put up 71 rups Bangara Babu and Ranganathem who conferbuted 17 and 13 runs respectively, being the only two tnexter into double figure scores Thillanayagam who accured 5 wickets for 22 rune was the most successful bowler on the SPG side The SPG wern all dismissed for 19 runs Weslevans who en'rred on their second innings with a lead of 52 rurs scored only 47 runs so that the S P G had to make 100 rore to win the match Once sgain they fared miserably and wern all disposed for just a degen rone so that the match ended in an easy win for the Wesleyats by 67 rous

Senior Single Tennis Tournament

The final of the above competition to the Haveleek Cup camp cff in the Victoria Bostel Tennis Course between the Christian and Persidency Colleges which were represented respectively by Markandeodd tet in thece (7 5 8 6 6 3)

Junior Double Tennis Tournament

As theen were only two entries the Wesley and Pathenyappa's for the Jonior Double Truois Tournament for the Sie Rameswams Con, the match between them clayed on the Victoria Hostel Copet saw the beginning as well as the and of this toornament | the two pairs being avente matched an extremely keen contest engoed and ther we should think amply compensates for the sparcety of cotries The march ren into three sets the middle set bring particularly long drang-

We congragulate the Pachetyarpa's on wresting tha Cup from the Wesley who it nill be remember-

ed have been bolding it for the last foor years Annual Scorts of the Madras Medical College

The Annual Athletic Sports of the Madras Medical College were brid on the College grounds There was a large gathering of the students and mibers interested to sports and there were to sa fee ao extent as possible accommodated under tents specially exected for the occasion

The aposts were in charge the Committee consist ing of Najor F F Fines and Capt Lorimer tindges and Major A Miler and Major T H Symona friarters ! The events were you purctoelly to time and the whole stow wes a success from begirbing to erd

There were no less than 15 frome on the programine preloding a Corsolar on Race and a race fie the College servanta Tie hema were all of tha mens | kird ard only one event the one mis flat race wes Oben to all the rolleges to Madras

After all the evrets were over Mejor Donovan distributed the or sea to the encountal minners. During the ever og the Bard al H h. the Gov seror wen in atterdance and payed refections of music

Must College, Allahabad

The Acquel Athletic Sports of the Muir Central College took piece no the 7th and Stb sestents Thore was very good competition and there were some very creditable feats. The long high and pole jumps were about the best of the lot Messra Chatery, Kaipa Shankar, Sie wee and Mukery, did very well indeed and proved to the spectators that Indian stedents are both mentally and phys celly atrong The sports were y-ry ably conducted by Mosers Her Presed Misra, Stewart and flloyd, Everything was well presplied

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Conning College Lucknow

A new game of cycle pole has been introduced at Danuing College, Lucknow, It is played on hieycles with polo sticks cot short, and a bockey ball on foot ball ground with larger dimensions. Its splea have not yet been framed, but a committee us going to be held to draw up the rules suiting the present need Alterations and additions would be made according to suggestions from supporters it is a very interesting game and a good exercise for oyclists

THE MADRAG CHRISTIAN COLUMN.

The Accost Athletic Sports of the Madeas Christma Cullege were held on the S I A A. grounds There was a large ettendance including the Rev Dr William Skinone, MA, Principal of the Dollege The programme was a long one, consisting of on lass than 16 stems the most interest ing being the burdle race, throwing the cricket bell, the tog-of wee, the one mile race the obstacle race, and the high jomp. The events were well contested and aroked loud and prolonged cheering Professor F W Benderson and Mr D K Wilson sched es Judges. The Accord Athletic Sports connected with the Dollego School took place on the S L A A grounds in the presence of a large gathering of students and friends. Mr. R Sherlife and Mr J Jaganathen, z s, z v, were the Jodges There were 16 avents, and the students entered into the competitions with a spirit of keensess and enthusiasm The distribution of prizes to the winners tonk place in the College

THE TIMESVELLY INTER COLLEGISTS.

ATBLETIC ASSOCIATION. The Annual Sports 10 connection with the shove Associa ion took place on Saturday, the 15th insteat on the Police Parade Greend, Palamoottab Among those present were the Right Rev A. A. Williams Bushop of Tinnevelly and Medors, Mesers. TO flodges, M. A. Lespector of Schools for the Circle H R Pate, ICS, D.N. Strathie, IOS, Nutbell H. Lawson, Mullelly, Mrs. Lean, Mrs. Cameron, Mrs. Straubic, Mrs. Dawson, Mrs. Addi. Mrs Ponunsami, Mrs Kishniah Pillai, Mrs Vei-kuntam Pillai, Mrs David, Misses Askwith, Howard, Pawson, Max Walford

After the various stems of the programme had been gove through, the prince, consisting of many valuable trophics, medals and cops were distributed to the several priso wigners by Mrs. M Loam Two handsoms cops were then presented by Mesara-H R Pate, IUS and T O Hodges x a to the best Senior and Junior Athletes In bringing this interesting Incction to a close, the Right Rev. Bishop Walliams made a short speech to the course of which he remarked that the thanks of the Association were due to Mrs Loam for kindly giving away the prises to the Judges and Umpires and to the Secretarine Mesers D E Cameron and Does Kishoush who bore the brnot of the work and to whom to a great measure the success of the function was doe that thanks were also doe to Mr T S Verkuntem Piller, the Treasurer who did great aervica to collecting the foods and those gentlamen who belond the Association with liberal gifts Doe moteworthy festure of this year's sports was that the mofossil schools were also shie to take part owing to the fact that a special trophy was lostituted separately to be competed for by the mofuest achools alone He congratulated the prize winders and exported them to make strengous efforts in fotore also and wished better lock cest time to the ansocressful among the competitors He called special attention to the fact that the Trophics were not taken doe care of and hoped there would be on neglect in keaping them clean and tidy to fotore

Junior Bricket Tournpment

PACHASTAPPA'S COLLEGE SS WE LETAR MISSION HIGH SCHOOL.

The final of the shore toprosment played between Pacharyappa's College and Wesleyen Mission High School on the Pickwick Uricket Grounds ended in a win for the former

pursue his enquiries further, eall further nttention to the subject and compel a foll disclosure of what has so far been done and what is going to be done. The memorable words of His Maiesty are ringing in overyhody's ears -- " It is my wish that there may be sprend over the land a net-work of schools and colleges it is my wish too that the homes of my Indian subjects may be hrightened and their labour awestened by the spread of knlowledge with all that follows in its train, a higher level of thought, of comfort and of health The cause of education in India will ever be very close to my heart" Over twelve months have passed since these words were uttered His Malesty's Coronation boon has not so far horns any fruit Possibly we may be characterised as impatient. But as regards education, there has been too much waiting, and may further dalay would only deaden the hopes and aspirations of those who have been tighting for the cause. The only echievement since His Mulesty's gracious unnonucement has been the knocking down of the Han'ble Mr. Cokhale's Primary Lducation Bill.

The Report of the Dacca University Com-

The Baces University Scheme ment consisting of about restring Scheme matter followed by no fewer them 33 places. The Committee seem to have gone used the matter theroughly and with a sort, and heve devised an well thought-out and complete a scheme that, if n University on the haca proposed by them becomes an accomplished fact, it will serro as a model for all fatters and present Universities in India. They have desired the three desired from every point of view and mothing seems to have except them attention. It is a difficient to

chosen only the salient points of a scheme in which every thing seems to be so novel and so mach of an improvement over the spitters now in existence in India. One can therefore, bardly do a sything like pastice to the labour of the Committee noises one goes through the Report chapter by chapter, and notes the special features in their recommendations.

Chap I gives a short history of the 'Dovelopment of the University systems now existing to Iodia' and points out their deficits and says truly that the Government and the people slike have come to realise that a University, to meet the requirement of the modern times, night to be sensething different from a mere examining machine and must be an institution "in which a true seducation can be obtained—a training of the mind, body and character, the result 'not a hook, but a man.""

Chap II gives an account of the Proceedings of the Committees. They hald satisfar meetings and referred the details to as mady as twenty-foor Sob-Committees of experts whose advice, and the assistance radders throughout by the Horbits fir abstincts Makherj, Vice-Chaprallor of the Calcuta University, they gratefully appreciate and acknowledor.

Chap. III. The Committee proposes that the University should consist of series Faculties—Aris, betwee, Islamo Studies, Law, Engouering, Medicinn and Taschur, The laboratories are so bu common to all the colleges so as to make the laboratoriety teaching both economical and convenient, and with a view to bringing together a largo number of able students engaged on advanced work.

The Faculty of Islamin Studies is a distinct tive feature, but along with such atudica the Ëев. 1913.1

As regards Medicine it is proposed that atpresent the University is to provide instruction only in the first M.B. course along with other science students as in Cambridge, the students going to the Calcutin Medical College for the rest of the instruction required for the final M.B, thus abritating the necessity for a separate Medical College, and at the same time reliaving, to some extent, the pressure on the Calcutta College.

In Law the Cummittee has overruled the very valid objections urged by Sir Ashutoah

Mukberii against having a Faculty of Law

at Dacca and has struck a middle course. The new University is to be affiliated to the Calcutta University in Law, although there is to be a separate Law Department at Dacce to enable the students of Law to pursue their post-graduate studies for the M.A. simultaneusly with those of Law. This is just the contrary of the principle followed in Madeas where post-graduate study for the M.A. is made impossible for a student of Law not only by the hours of intendance required in the Law College, but also by the conditions imposed upon the M.A. students whe receive a Government schularship.

Chap.IV is headed 'Colleges and Students.'

Chap.IV is headed 'Collages and Students.'
The Committee propose to have three general
colleges, three special colleges, vir., ous for
Minhammadans, une Women's college and one
colleges for well-to-do classes; two technical
colleges.—Engineering and Teschers'; and
two departments, vir. J. Law and Medicine.

two departments, rir, Law and Medicine.

The establishment of a separate cullers for Muhammadans can be justified on the ground that the habits and customs of the Muhammadans and the nature of the Islamin studies differ so much from those of the

studies also was referred to the Sanskrit Sab-Committee, but this Sab-Committee was sgsinst it and advised that the experiment should be tried in connection with the existing Banskrit College in Calcutta itself. Fur obvinus reasons a separate Women'e college is shedutely necessary, and its establishment would give a great impetus to female education in Iudia. If it becomes a success, as it is sure to he, Government may induce ather Universities to establish similar colleges for themselves slso. The Cummittee rightly consider that the course of studies in such a college should include domestic economy, bygiene, nursing and training of children and also some science subjects both for the general students and for girls who propose to take up the study of medicine. The preliminary scientific training provided for in this college is likely to afford s great juducement to Indian girls to turn their attention to medical studies and this with the completely equipped medical college for wamen which it is proposed to establish at Dalhi, must supply, to some extent at least, the great need for famale medical practitioners in India. We cannot, however, approve of the idea of s separata nellege for nobles. The reasons

separate tol for Sanskrit and Brahminical

in India.

We cannot, however, approve of the idea of a separate nollege for cobles. The reasons urged for it by the Committee do not seem to me to be convincing. There is no don't that the higher training of these classes is of the atmost importance to the State. A highly cultured class of nobles will be a powerful force for the advancement of the country, and its destrable to create in them a love of learning because it is only they that can pursue knowledge and scholarship for its own asks, and by thair patronage of the fine arts can help to raise the level of taste in the nation. Nobody can dispute the negect

the British 'tone' of the administratum, by ruliog out 'simultaneous examinations,' the Brahman and the Kaysatha want to shut unt nenotiem by having every door to office guarded by the examination dragon, the non-Brahmio of South Iodia desires to prevent all offices from felling 10to the hands of nne caste, by resorting to nomination, the Mussalmen demands more than a fair proportion of places reserved for his commonity that Islamio ideals may not be lost eight of in administeriog the affairs of the Mealem population, but behind the back of the braine of most of the witnesses, there seems to be acting the consuming deere of-as much as possible of the lost for the and mine Not that this is an uncetural or nodesirable motive, but it is there to the exclosion of other equally desirable unes Not a witness has apoken about the much more important question, what kied of education makes the proper civil administrator and how to secure it. To our mind, the tene suterests of India demand not that there should be in the ranks of the administration a proper blend of the supposed characteristica of races, religious and castos hot that given voor mao, Britisher or lodian, Hindu or Mohammadan, Brahmin or non Brahmin, howto educate him for his work. At present the special virtoes of the Civil Service, Imperal or Provinciel, are sought to he evoked by the memorizing of the irregular verbs of Greek or Saoskrit or Arabic, the stocking of the miod with physical coostaots sod metaphysical theories, the pozzling over mathematical riddles and bistorical mysteries. All those studies that will make for a good administretor are carefully roled out of court by the Civil Service Commissioners, University Syndicates and other similar bodice, because

these consist of men who have themselves gone through a similar grind end who have been quite asfe from the touch of the fire of modernam in studies They are all men from the older Universities, and stand up for modernal below.

The first and foremest pabelom on which must be fed a hodding The Edocation civilian administrator is of a Civilian Ad anthronology, India is a ministrator vast museum of anthropology, all kinds of cults, all deprese of barbariem as well as of civilisation are found in the country, hence an administrator is no good, notess his imagination is trained to respond sympathetically to ideals different from his ewo and this cen he done only by a study of aothropology He must, besides, study law, both as a science and as an art, the want of this, at present, hea developed a , terrific red tanism and dapendence on caselaw in administration. He must also be wellgrounded in modern Geography and Economics, he must clearly grasp how the life of the people of any province or district is but the reaction of men to their geographical environment, he must be able to study local ecompnio conditions due to the geographical cootrol of local affairs. He most heve ou expert's kunwledge of the whole of the History of India and of all her ideals not unly in the immediate present bot of the remote past, for 10 Iodia, the past 18 very much at one doors. He most have some Lnowledge of Geogral Biology and Homan Physiology, especially those sides of tho sub ject that are connected with Bygiene and Poblio Health The ignorance of the civil administrator in these sobjects has been the cause of much waste of poblic revenue, wit-

ness the ridiculous plague regulations still

obtaining in the Madras Presidency. He must have a working knowledge of German and French, so es to keep in touch, if time would permit, of modern advances in that side of science which sims at the immediate amelicration of human life-conditions. Above all, he must have a thurough knowledge of two at least of Indian vernsonlars; not the ability to frame helf-a-dozen sentences in the learced bookish dialects and receive an bonerarium for this feat, difficult alike to the native or the foreigner, but to converse freely with the man in the street, to write down what he says, if not in the difficult native script, at least in the international Romic, and to read patitions and diaries in the same acript. This knowledge of the real vernacular should he a sine que non of all appointments in the civil departments.

It is impossible to learn to speak a fereign , language in a short time (and without an agelong stay amidst the speakers of that tongue), unless one is trained in phonetics. A thirtyhour individual training in phonetics is necessary for each civil officer-Iodian or other-who seeks to serve in India. This, we cooccive, is the proper schame of studies for an administrator. Whether you select him for possessing memory-power enough to pase muster in a written test or you nominate him because he is the wife's brother's sisterin-law's son of a men now in power, let him undergo the course of training indicated shove, before or after being chosen and there is some chaoce he will he worth his salt. He will certainly be better prepared for his work than nos who has merely learnt to monipulate the Greek gerand, the Sanskrit Almanepadam, or the triple-joined Arabic root and other educational sidela invented by the monks of the Middle Ages.

the British tone of the ser-The British tons vices shoold be maintained. in the Public Berbut no attempt has been vice. made to consider the elements that make up the 'British toos' and whether it is in the

blood or a characteristic communicable to the Indian races by education. We conceive the British tons' to consist at least of three elements: (1) the democratic temper; (2) adaptability to veriation in environment; (3) a fairly high degree of incorroptibility. The democratic temper, we helieve, is chiefly due to public school education and University life. Io a public school, all the angles of character are knocked down and the elements of selfgovernment are learnt; the young man learns to estimate his fellows by their merits and not by their caste. Suchhary, susakishness and other evils of oligooracy are adnosted cut of him. The University continues the work of the public school in meniding the gentleman, polished but democratic. Hence io India we preently need the creation of boarding schools and teaching universities: and 'class' colleges, denominational schools, and departments of Monlyi or Pandit studies. &c., are very reactionary movements. All institutions that are devised to 'protect' the sanctity of the Brahman, or the Imam will arrest national progress. Such movements are anti-democratic, teach men to appreciate not merit but birth ; what is more, the Pandit and the Moulsi is a petrified, immobile creature. He shuts his eyes and imagines that the world is what it was a thousand years ago. Instead of encouraging this, on the other hand, every Indiao ufficial of a fairly high standing should he encouraged to go to Europe, of course hefure his mind has been crystallized. Lastly the incorruptibility mentioned above is chiefly 17

das to the Eritain official baying so local interests or connections. It is easy to be above temptation when there is no temptation about you. The Indian official can easily be trained to be above prepulier, if he is not allowed to serve in destricts where his mother toughe is spoken, or in his native prowner. Then there will be very little complaint about easte prejudices corrupting public administration.

We have much pleasure in welcoming the second edition of this excellent volume by Mr A Rangasamirengar ha B

Assistant Editor of the 'Hindn," which enpplies a longfeit and real want on this all important subject. In spite of the difficulties and responsibilities of the anthor in the prepare tion of an important book like this he bas succeeded in making it a thorough success all round though this is the first attempt of its kind in India The book treats of the origin, growth and development of Indian constitution from the establishment of British sovereignty in India, up to the period of the all important and far reaching reforms mangurated by Lords Morley and Munto and which are so successfully carried out by the sympathetic and broad minded policy of Lord Hardings It is common knowledge naw that the early East India Company chartered by Queen Elizabeth had not even a distant notion of the goal it was driving at and often mistook the nature of the astnation in which it was placed Shiful at counter work and matured by training and associations, subordinating the acquisition of political power to the commercial interests of the Company. the Company's acreants, almost from its early sattlement, were obliged, out of their matinch of self preservation, to take one eide or other

an the wars that raped around them This led them, step by step, to take leading part in such wars till they were themselves furced to assume sovereign power; curiously snough, by internerine fends and decay of astive savereignties, large pieces of Indian territories passed into their possession and rule . all this, in soite of the policy against acquisition of territory and frequent protests from the Court of Directors and without the least shadow of a thought or consciousness that the Company was drifting into naiversal anzerainty of India. A book dealupp in detail with the formation and consolidation of our Indian Empire, tracing, step by step, the passions and prejudices that retarded the efforts of the builders of that empire and the necessar difficulties they had to grapple at every stage, not to speak of the censure and fault findings of the Court of Directors, is yet to he written and is no easy tesk Contributions of materials tending towards that end will he welcome at any time. The appearance of a second and enlarged edition of this valuable book is opportune especially now The first six chanters are devoted to the frame work of the Government of India and its relation to the Imperial Government and as to how it is controlled and how its machinery regulated from without The succeed nz four chepters deal with the Legislative power in British India and in Chapter XI is briefly and clearly pointed the relation that exists between the Executive and the Leg slative department of Government. The passionale love and regard for law, that is the characteristic feature of the Augle-Sazon race and that has found expression in the Imperial Parliament, finds indeed its echo in the constitution of the

Legislative Assemblies of India on which depends the future destiny of our empire and its meterial progress and the learned author might have lingered a little longer on this part of his story. Indian Courts of Justice end their constitution next occupy his attention which is followed by a chapter on Indian Finance. The policy inaugurated by Lord Mayo'e Goverument-the policy of decentralisation-is briefly referred to end so elso the existing settlemsuts. The enthor would have done better if he had referred to them in greater detail and suggested some possible ways for their improvement. The relation of Native States to the British Government and their forming an integral portion of the British Empire, though for all internal administration they are practically independent Items, is a topic of absorbing Importance and has an international interest. In the author's account of the Native States, one misses the account of the judicial establishments and the safeguards that exist for the duo administration of justice end for seonring harmony between the British Indian and Native Courts so as to prevent a feilure or miscarriege of justice. This is a subject beset with coueiderable difficulties and as Sir Courtenay Ilbert remarks, "there are quicksaude at every step." After considering the Indian Budgets and the rules regulating them and securing a carsful endit of Indien expenditure the author concludes his book with this paragraph which gives a keynote to ell solid progress in these words: "The trus disposition to further the commen good in its highest form so necessary for futura progress of India, can only be attained by the rulers of the laud ceasing to take userow views of mero administrative thuroughpeas and by taking and imposing on the adminis-

tration, broad views." A perusal of the book shows enough of the author's thoroughness and complete mastery of this difficult subject and of the painstaking care with which be has completed his task.

With which he has completed his task.

We are surprised to see that the Indian Universities (except Bombay) have not thought it fit to introduce Indian Constitutional History for any of the Arts Exeminations, although the subject is one of absorbing interest and importance to Indian students nowadays. After the publication of this excellent hook on the abilicit the Universities have no excuse on the core of the want of a suitable text-book. The Bombay University in its mansal wise manner has at once taken the opportunity and prescribed Mr. Aiyengar'e work as a text-book.

We strongly recommend this useful and instructive book not only to students of politics hat also to students of Aris and Law courses. The book is neatly got up and is priced very moderately at Rs. 3.

Copies can be had at the "Hindn" Offices Mount Road, Madras.

On the first of March will be opened at Vizagapatame High School Famals educa- for Hindu girls. This is tion to the fore. practically the first considerable experiment in the secondary education of girls in the mofuseil and it is hoped that those people of the Northern Telogu Districts who have been speaking on platforms eloquest speeches on female education will send the girls under the sphere of their influence to the High School when it is started. One solitary High School in one solitary remote town of the Presidency will not solve the problem of female education. In Calcutta a strong committee has been organized to consider the question and wn have reasons to think that a similar committee will be appointed in Madras. In selecting members for the committee we hope the Government will not choose men as wee done for the religions instruction committee, is, appoint men who have been delivering neat platform orations on the subject, when this latter committee met, it was found that the people who could orate, could not create a practicable scheme On the contrary, we want men who know what they went and can device means for getting it A question, the committee might counder, is that of taking education to married girls instead of the ineffectual effort to immediately break convectione The education of married girls as really bound op with ac ecocomical problem in India, for every married girl takes a definite part in the household duties and any acheme of education which will take tham away from their homes doring the bours whee they have to work there, is doomed to failure Therefore tostead of trying to teach all girls for 6 hours in a school, sets of some of them may be taught for 2 hours at a stretch in helected local contres (hooses of richer re sideuts) by teachers who will visit those places in rotation daily The teaching hours may be arranged so as not to clash with the working hours of the girls

The great hane of mediaval methods of teaching whether followed Formslism in by Moules and Paudits

Teaching by Acciers and Faddits or Professors of Colleges to the sides that "the mental power acquired by exercise of one kind of meteral in available when the pupil is confronted with other material" For generationa Lachid was imposed on insuling schoolhory, became it was supposed to made people logical. Heroso does of grammar were givee, became grammar gree mas moral disciplining Getting in informable word lists developed meaning the professor of the professo

ory We now know this is all undiluted Meutal powers are not absolute entities but are correlated to the matter of knowledge One man has a memory for faces, another for names Hence the absurdity of making written examinations which test hut one kind of memory, the means of jedging achool-work or the intelligence of pupils Hence the necessity, too often forgotten, of aniting the ayllabus of work to the eptitude of pupils, it is futile to attempt, as is so often done, to out all pupils to a cast troe syllahue People who do not understand the psychological basis of modern methods of teaching cry oot against what they call too early specialization It may be possible, su the case of a pupil with no aptitode for ecieutific procedure but with artistic sestiucts, to stifle out his natural propensities and to do some work of little value in the field of sommoe, hot is the murder of the soul the object of school work? That it is so now is a fact But should not this be bettered? This came formalism is at the basa of the theory that wrestling with the Greek grammer, or as Dr. Macan hae called it to he presidential speech at the Modern Lan gnagn Association, the 'enbostaneous injection of a minimum of Greek" into a man, makes him develop qualities which will make him a good Collector, a good Magnetrate or a good Jndge

We have referred to the subject in a
The Source recent issue Our reason
The source for taking it up again is

The Source mixed of Texhing History that the lakest cource hook seed to us for review, by Arthur Inney, published by the Cambridge Prees, has hrought again would the fact that the Sourcemethod of teaching foreigo languages is not the latest fad of an over-serious technolaste, but the Cambridge of the Cambridge of the Cambridge of the Latest fad of an over-serious tologistics.

publishers are vying with each other for hringing out books on the lines of this method. The more advanced books which Indian teschers could use with advantage are Golby'e Selections from the Sources of English History, Adams and Stephens' Select Documents of English Constitutional History, Medley's Original Illustrations of English Constitutional History, Kendall'e Source-book of English History and Handerson's Historical Documents of the Middle Ages. There are besides at least four well-known series of source-books. Black's English History from Original Sources, Marshall'e Illustrativa History, Blackie's Readings in English History from Original Sources, and Nutt's English History from Contemporary Writers and Scotch History from Contemporary Writers. For school-use Keatings and Frazer's History of England for Schools is very good, for it gives the story of England. select doonments and exercises on these. Innea' Source-book is an excellent collection of extracts, but the teacher is left to devise for himself the problems thereon. In the hands of a good teacher who can think for himself and not gu to an Iospector of Schools or an Examining Board to draw out syllabuses for his use, it is likely to be of much service. Our readers may perhaps recollect that towards the end of 1910, oor City Fathers were The Madras Corporation " Model Schools." discussing a scheme for providing certain model Elementary Schools in

has come to stay, at least in English schools.

This is ovidenced by the hasts with which

Oor readers may perhaps recollect that towards the end of 1910, towards the end of 1910, oor City Fathers were providing cartain model Elementary Schools in Madras. A Committee of the Corporation Providing halfslings for Aided Elementary Schools in the city, and the Committee and the Committee of the Committee

to effect any improvement in their occommodation and equipment or in respect of teaching. The Committee therefore considered that instead of contribution to finance their institutions, the Corporation would do well tn upen schools of ite own, with proper accommodation, equipment and staff and gradually absorb the existing ecbools as far as possible. They accordingly recommended (1) that the Corporation shoold undertake to build 40 schools at the rate of 4 schools each year, the cost of each huilding with necessary equipment not exceeding Rs. 10,000; (2) that the schools built in one year should be maintained by the Corporation from the following year at an estimated cost not exceeding Rs. 1,174 per annum for each school; and (3) that the Corporation shoold, se consideration of the heavy outlay involved in the scheme, be relieved from the lightlity to pay teaching grants to Elementary Schools in the city.

These recommendations were accepted by the Corporation, and in G.O. No. 820, dated 25th May 1911, the Government approved of the above acheme for the construction and maintenance af the schools and exempted the Corporation from the payment of teaching grants to Aided Elementary Schools in the city for the 10 years which would be required for the completion of the scheme.*

In 1910-11, before the above schemo was sanctioned, the Corporation constructed a model Elamentary School in the compound of St. Andrew's Church, Cholai, at a cost of Rs. 6,610, and handed it over to the Archaushop of Madras on his executing a registered lease deed spreing, among other conditions, to raintain an Liementary School in an efficient condition and pay an annual rent of Rs. 65 to the Corporation.

The exemption took effect from 1911-12.

The first four schools to be constructed during the last official year [1911-12] were decided to be located in Possamullee Road, Valloba Agraharam Street (Rriptense), Sanpvarayon Koil Street (Royappram), and is Chniss Bazear Road Sites were acquired for the construction of the schools, but for some reason or other, the sites in Royappram end Chulai were abandoned, and new sites selected The schools in Possamilee Road and Opesed Classes have been started and papils are uttending.

The Veilaba Agraharam Street Seboel has been beilt at a cost of Re 12,000 and at can accommodate 160 to 200 pepils. There are to be 6 teachers with salaries ranging from Re 15 tn Rt 25. The fees to be levied in these model schools here perposely been fixed very low, ranging from nil to 0 annas per month.

We congratulate the Corporation on the empletion—though very terdy—off the first of the several model schools proposed in be beilt by the Corporation, and we treat less leibargy will be about a carrying out self-bargy will be about a carrying out of the construction of 40 schools.

His Excellency :

His Excellency :

Governor of Madras, as no viriate to achole a cliency confirmed for the Education of Madras and the acken interest in educational matter. His Excel lengy wakes to see all institutions and abina first band information shout there condition, their staff, their pay, the strength, accommodation and other details. During such a short time His Excellency has suited a number of docuttonal

His Excellency accompanied by an A D C. was received on arrival at the following institutions by Reo Bahadur A. C. Pranatharthihara

institutions

Iyer and the staff of the institutions Tha Madrasa i Arsam,—23rd January 1913 E L M. Alementary School, Kottichery—30th Jennary 1913 The Hinde High School—30th January 1913.

His Excellency visited the following schools accompanied by an A D C and Rao Bahadur A, C. Pranatharthibars for

56 February 1913 The Arya Patenala at Thombu Chetty Street, The Muthinfort High School, Muthinfort, Ramanujam Chetty School, Coral Merchant Street, Moses Ander School, Mengar Choulty Road, J. L. M. Bethany School, Cemeicy Road, Government Panchama Trausung School

6th February 1913. The Hinde Theological High School, Mint Street, The Progressive Union School, Andryappa Naick Street, Mrs. Lazares' Poor School, Elephant Gate Road, E. N. Vania Sangam School, Rasappa Chetty Street

12th February 1913. Corporation Panehama School, Perumet The S P G High School, Vepery, The Gevernment Mehammadan Training School, Mount Ecoal, The Wesley College, Hoyapettah, Damodar Frea School, Teynampet

In addition to these His Excellency has united The Madras Christian College, The Pacharyappa's College, The Backingham and Carantic Mills Half Timers, The W. F. C. M. Hunda Gula' School, Thumbu Chetty Street, and Madras Gula' Day School, Acharappun Street,

We have no doubt that the personal knowledge which His Excellency acquires by these risits of Educational Institutions will bear fruit in due course

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A REVIEW.

Indispensable for Students of History and Economics. INDIAN MONETARY PROBLEMS

By S. K. SARMA, B.A.

Mr. D E. Wacha Writes: I have carefully gone through page after page from first to lest Mr. D E. Wacha writes:—"I have carefully goes through payer sizer pige from first tollest and I control but congretules are now most creditable production. You had be a suffered to the congretules are now most creditable productions have atood you is good steed in greatering the production of the preferred production of the preferred production of the production of the character from any Indian.

The congretable production of the character from any Indian of the congretable production of the character from any Indian.

The congretable production was preferred to the control of the con so intelligible. The containes are api and telling and your own criticism is on the whole sound. This book cought to be in his hand of every educated lasting for is contrine an admirable presentment of the whole proline of Indian Correctory intertexally Latitizable year and critically who whole proline of the contrine of the contribution of the

their fade on the public. "writen -- It is extremely interesting to find that Indiana era taking The "Indian Bully News" writen -- It is extremely interesting to find that Indiana era taking

The "Indian Daily News" writes:— it is extensely accreasing to find that Indians are taking to interest thousand the indian area is to interest thousand the in the corresponding to find a way is like 1 indian Monetary Problems to interest thousand in in the corresponding to the way is like 1 indian Monetary Problems of Mr. S. N. Standards and the same and the contract of the persons who of Mr. S. N. Standards and the contract of the persons who of the persons who interest the contract of the persons who is the contract of the persons who of the persons who of the persons who of the persons who interest the persons the persons who interest the persons who interest

according to the Gold bugs of Lombard Street ought not to be at large.

The "Lead" "writes: ""The care against the proposal to introduce a gold currency as well as a real gold standard" " " o " could only then to that a real gold standard" o " could only be ablication on the activity, shakorstely and alty then it has read a standard of the subject and the proposal of the subject and the subject

promissive of a trained poernames.

The "Hindo" writes: "The solitor has done a useful service to students of the subject is the "Hindo" writes: "The solitor has done a medial service to students of the subject is and raises white the history of the country's monetary policy from the earliest times of British rich. students would onship them to spread modern ideas of science end economics among their less fortunate brethren. What enrprises us, however, is the strange in consistent position of the Indians in that those who were loud in their clamonr for the re introduction of the verusculars in the University curricula should now come forward and say that the Government grant should be utilized, not for the encouragement of Veruscular studies, but for the promotion of scientific knowledge. Does it not show a childrah indecision, if not a want of sincerity in the advocacy of the cause of the vernaculars. It discloses a children petalance and reminds one of the conduct of the child who having obtained the toy he most desired becomes dissatisfied with it as soon as he has got it and wants some other strates the bollowness of the cry for the varuaonlars, but what is worse, it discloses a daegerous tendency in the modern Indian politician to give avery question a racial turn, and look with suspicion upon every public sction of the Europeans as wall as to characterise the Indians that agree with them as supstriction sycophents and toadies trying to please the powers that he for some selfish ends of these own This attitude of a clase of Indian politicians is bound to tell sooner or later upon the social and other relations between the two classes and and up dissister to the country. One speaker at the Town Ball (public?) meeting in connection with the study of the vernaculers the other day said that in the matter of the vernsculars the interests of Indians slone were concerned and that the European members of the Senste ought to have shatemed from voting on the question Can this principle he consistently followed? How many academical questions are there se India which are not exclusively concerned with Indians? And for the matter of thet, was there not in the Scente a large number of Indians themselves who voted against compalsory rermaniars and who might be credited with as much patriotis feeling and as much 'independence' as those who voted for it!

However, this by the way. To turn to the main question First, as to the study of the vernscular literature by the University stu dent during the whole of his career as a means of keeping slive among Indians Indian traditions and Indian culture, and to prevent the denationalisation of the Indian boys, and also as a medium of moral and religious education Varuacular literature is wholly and essentially Hindu, while the University students belong to all classes and erseds Will the University as a public institu tion, and bound like the British Government to religious neutrality he justified to imposing the Bendu traditions and religious dogmas on the large number of Mahommedan, Christian, and other non Handy students whose vernaculars are the vernaculars of the countries in which they live? Surely the Mahommedans and Christians would naturally resent such action just as some Handus think that Christian schoola should not compel Hooda papils to sttend their Bible classes. These, however, have the uption of syniding Christian echools, hat those being Dravidian non-Hindus will either bave to learn some other second language or give up University training altogether if they wish to avoid learning things repulsive to their religious sent ments. The advocates of the verneculars speak as if it were the most ustured thing that Indians should be imbred with Indian traditions, but they overlook the fact that it is the Hindu

traditions and not Indian traditions that they thus seek to impose upon the students, and that the University is not for Hindas above, This is a point which they have conveniently ignored, but which I bopo will not he lost sight of in future whenever the question of the vernaculars is again brought up hefore the Senate,

Even granting that the University exists only for the Hindns, is it necessary to continne the study of the vernaculars through the whole University course, and is there sufficiently serious matter in the vernscalar literature to make it worth the while of a modero University student to spend a great part of his precions time over it? and what, after all, are the traditions that are to be learnt and what are they worth? That the Vedas (which we can never read) are sacred Divine revelations, that God oreated the four castes, if not all the thousand and one now prevalent, that the Brahmin is superior to all other human beings, that it is no sheme for him to beg, that there are thirty-three crores of gods and goddesses, that the earth rests on the head of Adisesha, who rests on the back of a tortoise, that the eclipses are produced by the monsters Rahu and Keiu awallowing the ann and moon who can he rescued from their jaws by your offering prayers during the time, and so on, and so forth. Is not such the pabulum with which the student is to be spoon-fed all his life by that most loving of grand-mothers, the Pandit! If so, does he not imhibe enough and to spare of it at home from the cradle upwarda? and can be not be weamed from it even after the eleven or twelve years which he spends in the High School? Do not his mother and grand-mother know these traditions without their ever having learnt even the vernacular alphabet? I should therefore

think that if instead of the Vernacular text-books now taught in the classes up to the Matriculation which are nothing but translations of English readers, and so simply a repetition of the same ideas they learn in English, proper text-hooks consisting mostly of extracts and matter from Veroacular literature he introduced, a hoy would have learnt a good deal of that literature itself and the ideas it contains-enough at least, to create in him a taste in such literature, if such a thing is possible. For, after all, it is his own vernacular, and he must he able to read a lot of it out of mere love (!) for it just as an English hoy reads his Shakespeare, his Tennyson and his Robinson Crusoe for himself while still very young. No University student in Europe, or even in India for the metter of that, is compelled to study his own vernaculer literature after he has entered the University.

As for the culture value of the vernacular literature the less said about it the hetter. This was avowedly the reason why the lete Mr. V. Krishnaswamy Aiyar and Rao Bahadur Professor M. Rangachariar and several other Indian Fellows of the University thought that it need not be continued as a subject of compulsory study in the now University courses. Ninety per cent. of all Vernacular literature is trash, if not worse, and if we exclade the several versions of the Ramayana and the Makabharata and in Tamil, the Kural... and one or two other works, there is nothing in those literatures that will command the respect or admiration of an English educated gentleman whose austhetic taste is not corrapted or who views them from other than an antiquarian or philological point of view. Little blame to the student who has been accused of neglecting and even bating it when

has taken in all educational institutions, public or private, he has given a lasting stimulus to thought in this direction.

The first point to be considered in the formation of any educational system is the object it is intended to folfil. The matter and the method of teaching cannot possibly be decided upon until that point is sattled. The system of education hitherto adunted by the British Government in India has had for its object the production of Government officials to help the British Government to govern the vast territories under its sway, This was admittedly the end in view when the first educational institutions were proposed under Macsplay's advice. The mistakes of great men ara said to be at least as powerful a source of evil as their talants. if properly applied, are of good Newton's mustaken theory of the propagation of light stopped all progress in that branch of science until recent years. Macanlay's narrow views short the education of India has had a similar effect in blinding people's eyes to the true end of education, 'which' says His Ercellency, 'is to prepare men and women to perform their duties in life

The end hung admitted, the old nrder of things must necessarily change and yeld place to the new Bot in a country which has been reating for centuries together, change is not as easy matter. The capacity for change, for adaptation to silvered environent, is, no doubt, the sins qua non all continued the and India will live again only when it acquires that capacity. But that will take time. For the present, it is the duty of the educated few to lead the way in this metter out be prepared to change, if change is admittedly desirable. Some of nmr great admittedly desirable.

changes, seem to thick 'Has not the system produced us? Where is the necessity for ebange? What greater men can the now system produce?' We must take a broader view of the matter than that. Let u., for a moment, consider what the greatness of our great men consists of, and let na put them in the balanco agoiost the great men of the world The modern world hinges not so much on spiritual as on material progress, not so much on religion as on science. Spiritualism is now apparently the only thing India has to boast of, and although, happily, at is on the decline at least in the more advanced nations of the world, the nawest fads find a breeding place in India. It will not however do to pin our faith to a muchdisputed God if we want to keep paca with the progress of the world We must have something more solid. Moral character will stand the test much better, slibough, I dara say, a nation of scientists will beat the most moral nation in the world at all points, Leaving these saide, then, can we point to any other constituent of the greatness of nur so called great men? Original acceptific research by Indiana is hardly ever heard of High literary attainment is not so rare, but paterally of less practical value. Even in this, original work is rare. Most of our good books, light or serions, in the vernaculars, are translations or adaptations. And the same may be said of original thought of any kind What is this the result of? How do we account for this failure to produce even e few original workers when the Universities are manufacturing graduates by hundreds every year? Evidently there must be something radically wrong with the old system of education And if we examine the old system, not with the object of defending it, but for the

purpose of finding out the dafects, they stare us in the face.

PRIMARY EDUCATION.

The ideal system of primary education is that which makes it free and compulsory , up to a certain limit, which will naturally not include much more than the three R's. But this ideal cannot at once he attempted for two reasons. The first is the want of funds. His Excellency declared in one of his Convocation addresses that Government is sponding and will continue to spend the limit of its resources on education. Here, of course, allowance has to he made for the fact that the first object of a foreign government must necessarily he the maintenance of an adequate military force. Let us hope, however, that Government will sometime he in a position to do more than it is doing at present. In 1909-10 special greats were made for primary education, and the result, according to the officiel report, was an increase of 71 per cent. in the number of primery educational institutions.

The second difficulty in the way of compulsory primary education is the went of efficient teachers, although, of course, with aufficient funds, tsachers could be trained. It is found that of the hand-masters, more than half are untrained and of the assistants, only t are trained and I have passed the Vernacular Final. Of head mistrasses, 2 are trained but of assistants, 2 are untrained. The minimum pay of assistants has now been raised to Naturally, hetter pay will procurn more efficient men and this is e step to be commended. His Excellency has, in fact, declared it to be the policy of Government in this matter to make primary education more efficient rather than to spread it over a wider area, hacanss, at present, it proves in

some cases to he no education at all, and consequently a waste of monsy and lahour.

SECONDARY SCHOOLS.

As there is no question of making secondary education free or compulsory, the went of funds is not so scritchy felt. There are, however, other difficulties. His Excellency remarked that only e small percaotage of Matriculates were able to take advantage of any of the University courses, inferring that a great many pupils went up for Matriculation who should not. Also, the school classes had everywhere grown to such an extent as to ha heyond the capacity of one teacher to manage ad-quately. Government thought it desirable, therefore, to raise the face both in Government and in aided schools, though not to the same extent in both, and also to restrict the number of free students. Again, it is wellknown that a large number of Matriculates do not know Euglish enough to enable them properly to understand lectures et college. The remedy proposed is to teach some subjects for the Matriculation in the vernscular and to allow papers in them to be answered in the vernacular at option, the time thus saved heing devoted to develop a greater general command of English. Also, to relieve the pressurs of the examination atill further, science, gaography and the verescular bays been omitted from the examination, a cartificate of progress from the head-master heing sufficient. It is to be hoped, however, that a strict supervision will be maintained over all schools to ensure that these subjects are properly taught. Even before, very faw schools could boast of an adequate laboratory and this evil is likely to increase in the absence of strictness. Other minor changes have been made in the school entriculum, and Government also propose that the School Finel Examination should be considered equal to the Matriculation for University purposes

Here, again, arises the question of trained and patrained teachers The Secondary Training College has now been in existence for seven years and during this time must have produced a good number of tratord teachers But my personal experience in that head masters and even fuspectors do not take kindly to the up to date methods advocated at the Training College fuenectors maist on the pheryance of mechanical methods, which perhaps make the task of mapection easier. and head masters, consequently, so some cases actually refuse to allow any new methods to be followed. We meet again the argument 'we learnt under the old methods and we are fit to be Inspectors and heed masters' etc. Now, es at present there are no trained head masters, the evil will continue until the majority of head mesters ere trained (who is to train the Inspectors by the way ?) se, for a pretty long time

'Transfera' is enother cause of inefficiency and although I had heard that there would be no more transfera for promotion, one still sees tosobera transferred for no apparent reason, and naturally the classes suffer

The Bombus Presidency compares favoraably with other provinces in the matter of expenditure on educational institutions, both Government and Monerpal, and also in the number of public institutions, although Bengal and Madras are far abead in private institutions. Also, the number of scholars in proportion to the population is the bighest in Bombay

THE UNIVERSITY

Some of the most important changes due to Lord Sydenham are with respect to the corricula of University examinations

Owing to proposals laid by the Government for consideration before the Senate, the carri

culum for cach exemination has undergons considerable modifications. It is here possible only to note the more important ones. After 1913, the Previous Examination will not be held by the University, but by each college for itself. A certificate from the Principal of the College will be a pasport to other courses as the P. E. was before Practical Physicatakes the place of History, and the course in Mathematics has been untended on the whole, students will have to work much harder, and the portion in Mathematics is too much for one year.

At the Intermediate, Physics has been explaced by Indian History and Administration, and as I think Science more important than eroo Indian History I think the changes is for the worse. The option of Login for Mathematica will certainly be velocome to Mathematica that he here the bugbeer of the everage under graduate. This also allows the course in Mathematics to he attended, so as to include the portion essential to students who wish to take up Science at the BA.

All these lead up to the greetest and most disputed change of all, trr, that at the B A. As finally adopted, the new curreculum has only one compulsory subject, English Larangeag and Literature, and a voluntary subject has to be chosen from five group: There are separate coareas for Honours in the voluntary subjects, there being three additional papers for Honours.

At the M A there are only foor branches I Languages, Philosophy, History and Mathematics, the last baug divided into two groups, Pere and Applied Physics, Chemistry and Natural Sciences are omitted in Larguages, it is not now compalisory to take English, but any two may be chosen provided a Ternscular is accompanied by a classical language. It looks rather atrange to allow the wureacolars at no other examination than

the M.A. Another notable feature is that Pall has been admitted as a Second Language at the higher examinations. The course in Mathematics is considerably asgmented, scope being given for original work by taking it into consideration at the oramination.

At the Inter-Science, English is umitted, and any one of four groups (of three subjects each) may be chosen.

At the B. Sc. there are anyen groups of two subjects each, one to he the principal subject and one subsidiary.

At the M. Sc. (which did not exist hefore) there are six aubjects, one of which is to be selected. Herr, also, original work will be considered as at the M.A.

There have also been changes in the curricula of the L.M. & S., M.B. H.S., and L.L.B. examinations and those of the examinations in agriculture have undergone considerable

medifications.
Finally, there is the new Faculty of Com-Finally, there is Commerce takes four years after Matriculation, the first year's course being the same as for the II.A. One year more is required for the Inter-Commerce and two more after this for the foat examination for the degree of Bachelor of Commerce.

for the degree of Bachelor of Commerce. It will be seen that the gaiding principla followed in the above charges is that the real value of education dapsends, not on the unmber of subjects taught, but on the theroughers with which they have been targht. The greater the number of subjects attempted to be taught, the more superficial is the knowledge acquired by the papils. Hence the catting down of superfluors subject, especially at the lbA. Thare being now only two subjects to read for that examination, the spare time can very well be given to any other subject the student has a fancy for, and in this he will be free from the presence of examination.

Anciber delett prisorable is the old course

is a want of continuity. A student could never properly gauge what B.A. mathematics, four instance, would be like from what he know of the subject till then. A similar gap existed between the B.A. and the M.A. courses. These have been nicely filled up in the new arrangemant.

It need hardly he said that before changes on this extensive scale could be decided upon by the Senate, there were many hot discussions as to the utility or otherwise of particolar subjects. There were in particular two, about which the greatest differences of upition prevailed. One was

Hisrory.

There can hardly be two upinions as to the value of this aubject when properly taught. But, as His Excellency unce remarked, the teacher of History is born and not made. I must confess to having conceived a violant dislike towards the subject, merely because, although I was at one of the best schools, I did not meet that born teacher, I unly regret the time spout on it, which might certainly have been better used. So far for Matriculation History, which to me consisted merely of dates and avenua! At the P. E., matters ware little better. Besides, what can these little books prescribed for it really say about either Greece or Rome? About the introduction of History at the Intermediate, we find the following remark in the Government sammery : ! Political agitation canaci Government to provide a carriculum giving youths a classer grasp of facts and elecumstances concerning India's position in the Empire and a better chance of serving her somethic seeds.' There seems also to be much sense in the argument that those who have a penchant for the subject may take it up as their optional. The forced stally of any est at is so study and the burden of two compulsory papers in History was really a besty our. All arguments for keeping the anbiect fall to the ground when it is rememhered that a subject sinded draly for examination purposee is soon forgotten and sometimes hated for over after

SCIENCE

Another much discussed subject was Science. After the praise bestowed on it in His Excellency's first Convocation speech, it is rether disappointing to find it given so little importance in the curricula. In the first year's course in Arts, where it occurs as 'Practical Physics' one finds a most amportant branch, electricity, altogether omitted At the Intermediate, at finds no place At the BA, the Senste insisted on retaining it in upposition to the original proposals from Government. And it is dismissed from the MLA course The Government argument was that those who wanted Science may take the B Sc. course, which, as a qualification for Government service, would be const to the BA But in that way a sindent would have had to forego either English or Science. and the Sanato acted wisely in allowing both to he read together at the B A The Government, of course, held its own in so far as it does not now provide for Science for the B A course at the three Government colleges The Government has however done a great deal for science in another way, namely, by the establishment of Science Institutes at Bombay and Ahmedsbad, mainly intended for post graduate courses of study Two other supposed branches of education

remain to be considered. The first is

RELIGIOUS EDUCATION

If adnostion has snything to do either with training the mental faculties or with imparting correct knowledge, ' religious education ' does not, to my mind, convey any sense For purposes of evesion, 'religion' is often supposed to include 'doty to man' as well as daty to God' The former, however, rightly falls under 'morality,' which has nu conucction with religiou, nay, is sometimes opposed to at. Considering 'religion' then in its proper sense of ' doty to God,' we find, in the first place, that the very existence of this God sa, to not it mildly, a disputed point Consequently, any structure hased on His supposed existence is of very doubtful value Religion very often save one thing and modern science says another If, then, modern science is Luowledge (and we regard it as such), religion is the direct opposite of knowledge, a.c. ignorance or superstition I fail therefore to understand how the imparting of correct knowledge can be religious, or how a training in superstation can be called education

Again it can certainly not train the mental faculties to he taught to believe without avidenca, as religious people have to do fact, helief not heing a voluntary function of the mind, 'religious education' (neglecting the contradiction) must, in a great many cases, lead to hypocriny and is to he deplored find in the Government summary D200 paration of a series of moral and religious band books for use in schools. These religious hand books can in no way justify their exist. ence in the twentieth century if ever they could and their effect on sobool boys will be to sleep them an enperstation We are told that they are intended to be a preventive remedy against illegitimate political egitation A casual glance at bistory ahould have served to warn anyhody that religious beliefs have been used, times out of number, to create political disturbances It is well known that Shivan used them for his purposes, and it was quite as illegitimate then to plot against the Mshommedan Government as it is now to plot against the British And more recently, was not the Great Mutury steelf fomented by a apperatation, which is the invariable accompausment of, if not synonymous with religiou?

Besides does any one really think that any amount of religious or other teaching would have transformed homh-throwers into peaceful citizens? It is nature that does these things, not education. How many Christians follow the advice of Christ and, when emitten on one cheek, offer the other for like treatment? In fact, has not the rise of the Christian nations been due to their doing the exact contrary? No people put the tenets of their religion into practice unless they are forced to.

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And religious education is not at all neceseary. Have we not the hrilliant example of Japan pointing to the fact that a nation can rise by a purely secular system of education?

It is certainly to be deplored that sectarian Universities are being proposed which will necessarily give more importance to this imaginary education.

MOBAL EDUCATION.

Moral education is quite n different matter, although upinions may differ us to how for it is possible. It must be remembered that the home and social environment datermine the character of a man much more than any school or college education can do. In India especially, where there are practically an boording schools, and college hostels, where there are ony, accommodate unly n limited number, echools and colleges can have hat little influence on moral character. And hesides, dn not the existing text-books amply satisfy the moral requirements? Each series of readers contains a good many moral stories and these should be quite enough in the hands of capable teachers.

The next question is 'How for are the moral principles tenght in schools capable of being put into practice?' Even with regard to the most elementary principles, there are difficultios. A man who always spoke the truth would be out of place in any civilized society. History will point to the fact that England owes its present position not ton mind that lightly letteth go what others prize,.....an nursvengoful spirit, as

advised by the Bhagavad-Gita, hat to a bulldog tenacity, which is the exact opposite of it, and so on to any oxtent. Besides, on complicated points there will be considerable differences of opinion. On the whole, the personality of the teacher will do more for the development of morals than any toxtbook. However, the hooks will not, at any rate, de harm. One thing may here he noted. The older

generation is rather fond of attributing want of roverence to the younger. The younger may justly retort : Deserve reverence and you are bound to get it.' As the Sanskrit poet has it, 'Everything is not good hecause it is old,' and, in a progressive world, everything has to go on its merite. To my mind, the charge indicates nu amount of vanity in those who make it.

Locking back, one finds several encouraging items in the educational avents of which wn have taken a brief survey. There is certainly reason to hope that the concentration and focussing of attention aimed at in the revised entricula will lead to original work. Education has made nonsiderable progress among the depressed classes. Ladies, too, ere coming more to the front and there is a sensible increase in the number appearing for the various examinations. The Victoria Jubileo Technical Institute and the Art School are among the heat institutions of their kind, and His Excellency has expressed the wish of Government to help Industrial institutions. There has hardly been any regime so important as Lord Sydenham's from the edncational point of view and let us fervently hope that the Presidency shall see many more auch Governors, taking so aympathetic an interest in the condition of the population estrusted to their care, and exerting thomselves in such an eminently practical way to improve it. R. D. KARYE.

eference

NOTES OF LESSONS ON "LIGHT."-(Continued from page 417, Vol XVIII)

Hintretone applance diagrams to books etc	The path of the ray through and outs can be found by the pur method (strong and for descenancy the refractigies). The perspecticulars dropped senerged it was on the proforgation of ray on the proforgation of ray will be found equal though the
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Main bendiog	Refraction through a thick plate with poraliel faces

Lateral displacement can be illustrated in a



4. When the material of the plate is desident (6) In the stage of the majorite interaction to hierarchical than the complexity of the majorite interaction to the stream with the place of the stream with the stream of the stream with the stream of th

image can be seen on the screen.

the from unition of the filter, with producing the filter when the filter was the filter with the filter was th

Thus a series of images

parallal to the other reys. polished metallio reflector.

Note. 1. It will be well to monnt prisme on a stand with reversi points, the uppermost for rotating The amdents should carefully understand the following tarms and expressions before proceeding s formed, gradually decreasing in brightness. The front seriace and the back silvered-surface act like parallel mirrors. These images will not be seen in a

Consections with pulsars — The pulsar of view, a few prime about forms still discussed the term of the pulsar of the pulsar of view, a few pulsars of view and view an

2. Objects seen through prisms generally exhibit coloured edges, drs to dispersion of light, which will be dealt with or parately. For the pin method

and most niber experiments on deviation of light has prime, it will be well to employ large ones. Primes of shent 3 inchittee can be obtsided at a low-price from Messre. Pye and Co., Mill Lane, (d) Principal section A section of the prism al-any point in its length, porpositedise to the orige. The prime, generally used for a systematic ser-teraprile primes and that primed sections are neally equicated or invested stantife. (b) The refracting angle of the priems The angle between the faces. The edgs (or refractive edgs): The line along (c) The edgs (or refractive edgs): The line along the faces meet or would meat if produced.

3. Unless otherwise stated, the meterial of the rism, each as glass is considered optically denom-Cambridge. prism. (s) The angle of deviation produced by the directions of tha

4. A prism of a liquid or a gas can be made by enclosing the liquid or gas in a bellow glass prism, the sides of which are glass plates with truly plane than the sprreppding medium which is generally

prism: The angle between the

FOS In fig. 32)

parallel faces and produce no deviation

A lighted cendle heldneur an ordinary glass mireor sed locket at a obliquely. When light flush impen of variog beightness. When lighe falls pool of the prifected from upon plates has a miree; part of it is reflected from 1 Rultiple imager in

Refraction throagh prista-

The path of a say of legist through a param can be! I "The pan mathed. 2 pear R and P first on a considerable to the control of the catheries and is jet other, with a cather part of the control of the catheries and is jet other, with a catheries and is jet on the the smages of the other pair seen through the prism undergoes bending Lacht merdent on a priem of the material is known

both when it enters the prism as one face and when it emerges at the other and the total deviation is ZBAC = refract the ann of the refractions at both the faces AC as faces of the presso AB and A ing angle

tion to which rays of hight are daysated as way from the refree, or edge or towards the base or It will be found from experiments that the direc LFOS = engla of deviation e. LFDE+LDEO RPD = incident ray . Vide fig 33 DE = paid of the ray through the prism EQS = emergent ray

bicker part of the priam

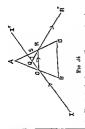
will allow Similarly, by looking along SQ naart the pin S to appear in a line with Q and the image of P opposits sides and fooking in BP, place yourself so that Pinin a lina with that the priem with one RP, place yourself Stick P and Qon

It is important to sick & looking slong not elong RP, as in the letter case that S will appear somewhat indistinct and coloured on emargenca (blue on one aide and red on 1 makes of

In the centra of a sheat of blackoned card-

the other)

10191	NOTES	OF LESSONS ON "LIGHT."	141
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D = angle of deruction LTQR.

is about its ours there is a mose position which grees a modified further digits than positions on a librar aide of it and that which it this positions on a librar aide of it and that when it this position and a small relation does not seasify affect the Allow a beam of aunlight in a dark room to para throogh a prista and observe that, on rotating

b

The students may well be asked to set up prisms in the position of minimum deviation, calculate the index of rafraction therefrom and verify the result to L M Jones Physics, p 142 by other methods.

amongt of dovintion For goomstrion proof, refer

Ан вп вхогозве, све A lighted oandla looked at through a prism held in the hand seems rused

the refracting edge parallel to the edge of a wiedowstudents may be asked to carefully note and explain what will be observed if a glass prism washeld with at through it. (1) when the prism is kept (2) when it is retated slowly so as to change the souls of needence of the entrant ray. To the position of minimum deviation, the virtual image of a minimum point (and beaves of an object) as seen through a prism will be at the same distance from three drives and no the same and Daw ningrams illustrating the formation of amages in

from the edge the phiet will appear, to an observar sokieg through it, to be more nearly in the direct ho of the edgs than it is.

his as well as other posttions

The rays travarang a priem boing bout away Cmage formed to prism.

The devalued produced by a given prawn is feast, when the path of the ray (see OR in fig. 34) in the prime is a promisered with respect to the faces (AB. and AO) I., is equally inchaid to them. This likenow as the position of minimum denation. Here the angle of incidence is equal to that of emergence Note (1) In the position of minimum deviation, the tedax of refraction is equal to

Position of minimum devia- [

L M. Jones' Practical Physics, page 142. For experimental illustration, vide

Practical Exercises in Light, by Olsy, page 11. Let the students try to trace the course of a through the face at r a page of print.

(To be continued.)

Total reflection in prisms.

XIX

20

OUR PUBLIC SCHOOLS AND INDIAN HISTORY

METBODS of teaching in the public schools of our Presidency have changed considerebly during the last decade. Any student who passed not of a High School, even half a decade ago, heppening to visit the same, now, will be much strock with the improvemente effected

In certain High Schools where the Science laboratory and the Science class were haddled together in a room of not more than 20 by 20 ft or thereahout, we have now exparate halls equipped with elaborate appearate, and with provision for anabling students to carry on apperiments. In short, in certain progressive High Schools, these laboratory halls are as long as the laboratory halls of certain collages, too

A similar attempt at an advance in the teaching of history is made everywhere Especially is this the case with Eoglish History Walls of rooms are buog with pictores that represent notable scenes from English History. We see, almost everywhere, a loog row of pictores, like the "Surong of the Magna Charta" the "Landtog of the Normans on the English Soil," the "Cleeracce of the Parliament by Oliver Cromwell " end aimilar ones Certainly, each a ceries of pictorss will give an accorate and todelible impression of, the land marks of politicel history, and, the general pulitical life of the land, to which they refer It will also picture to the curious eye of the young stodent the military dress and other interesting details of the customs of the land

But let us see what emount of attention the History of India receives to these achoels. It is a serious contrast that we notice and much

feel for We rarely or never come across a single picture, releting to the events in Iodian History The lock of instructive and interestnog pictures of the sort referred to in connection with English History is one of the causes that keep Indian History, behind English History, 10 nor schools, in this respect. Our studeots have more familiar impression of the Courts of Henry II, Henry VIII, Elizabeth, Charles I, &c., than of Muhammad Ghors, Baber, Akhar or Shah Jahan, or of any of the Peahwas They have a clearer idea of what Cromwell or Nelson was like than of Nadir Shab, or Raja Mac Singb While, when made to read and hear of the several kings of Eogland they are introduced to the subsidiary historic person ages of tha times who took part in the courtlife of the aeveral rulers they have not got the opportunity or the means to take pasps at any such hys-personsges of the Indian History. And the naccessary result of such a system of teaching Indian History is quite unestudectory Reading of history on such high road journey principles is certainly a tasteless and prosaso task The breins of the stodents cobjected to such a system are not soil, fertile, for the germication of the true historic epirit or genins The horizon of their historie information with respect to Indian History is more like the mid day sky, which is domicated by the all pervading ann whose presence throws into the back ground all the other orbs to Space. Until the son hegine to retire into the West, we do not get a look at the beacties of the evening sky or the nocturnal ctarry moon lit sky with its milky path The cun's light felling on and illuminating the frages of clouds is the brightest silver tinge and the pleasantest eight Let, therefore, for the] sake of the humen notorest, which these schaidiary historic persocages possess for ac and, also, for the sake of the more lively and comprehensive pictore of the contemporary life they give no, such personages he included in the scheme of historic studies. An account of the court-life of the several Moghal and Hisdo rulers of Iudis will give a more truly historic view of the ages that have past.

Conspicoity and familiarity are some of the sensible and practical methods of leaving indelible impressions on the plastic minds of young students. These, applied in the teaching of history, ore very helpful for the creation of a historic geoice in them: A pioture, showing the Dorbar of Jahangir hing op in the class-room, will briog home to the stodeots most emphatically and realistically the atmosphere of the Moghol conrt-life. It will show what the Emperor was like, what his regalia was. It will give an idea no less clear of the achievemente of the nation's art and industry of that period of history, for, in any age, the hest attaioments of the oation's art will be brought together in the king's court and palace. While coce studying the picture of the Durhar of Jahangir given ic oce of the issues of the Joneusi of Iudian Art and Industry it was observed that the Moghal Emperor was seated not on a Simbasanam usually essociated in the Hindu mind with a king in court, hat wes seated on a dais leaning against a cylindrical pillow set horizontally hehind him. It was also observed that ell except the Emperor kept standing, every one of them holding a long staff in hoth the hands in the front implying the readiness and loyelty with which they bore the rod of his rule. Studying at another time, the picture of the Durhar of Akhar Shah II, thie featore was coted with greater

interest, for Sir David Ochterlooy too who attended the Durbar is seeo standing holding the staff like the rest of the courtiers. A further observation was made that the Moghal (Semitic) roler did not woer a coneshaped crown (Kiritam) but had a pagri or turban on his head. Another picture which was of Nur Jahan evoked the observation that the Semitic queen wore e pagri, too. All the Durber pictures relating to the Moghul Emperors chow that the Hindus held responsible positions of rank and respect to their courts for it was observed that the beerdless faces close to the Emperor's seet were Hiodus. From this was drawn the legitimate conclosico that Hiodos and Mohammadaos sojoyed motual trast and co-operation at this period of history. And students might draw these valoable lessons from these pictores much more easily than through lengthy accounts narratiog these facts and learn more willingly, for, knowledge here comes in the attractive garh of pictores which are conversally loved much by obildreo.

We have seen of what immeose value and help soch pictures are in the teaching of Indian history. The hest way for securior illustrations of this type is to otilise the plates reproduced to the Journal of Indieu Art and Industry (published by Messre, W. Briggs & Sons, Ltd., Peckham (Hanover Street, London, S. E.). The informatory notes, given in this Journal, on the plates reproduced, are of inestimable value. We get interesting side-peeps into the inner court-life of the ancient rulers of this land and elso at the personaand vicistitudes of the several English generals and atatesmen that have played their part in the history of India. For example aven a graduate of this University might not have known that in Akber's Court were two great Hindu painters Daswant and Basaran who learnt the Persian style of painting from Muhammadan teachers and soons surpassed them in it. Nor is it known to many students of history that Asaf Jah of Outh omployed the two Daniells as Court-painters who grow to be larmone as painters of Indian history personages and places.

Thus it may be seen that it is hard to estimate the value of securing these and similar illustrations relating to Indian History. and utilizing them in our schools They may he profitably framed and hong up in places accessible to the students and helming them to study them. The matter given in this Journal will be of considerable bein in the matter of making up an Indian History from original sources. Much time has already passed by our High Schools, in complete darkness as to the existence of this fruitful source of information and the best stemples and nursary of historio geoius. Now at least ther may set about utilizing this wonderful record of the ancient and modern Indian art and history which gives a true and complete picture of the past of this land

C R KRISSNAMSCHARE

THE EDUCATIONAL POLICY OF THE GOVERNMENT OF INDIA.

ON the 11th March 1904, Lord Carron who was then Governor General, published a lengthy Resolution reviewing the state, and prospects of education at the time. The fluttory of Education in India up to 1854 when the Court of Directors stanced their memorable De-patch was carronly reviewed and careful stock taken of the results of the educational policy of the State for fifty years ance then Some of the more important recommendations the Education Communication Communication Communications of the Marchael Communication Communications of the Marchael Communication Communications Communica

of 1882 83 were also reviewed as e. o the avstematic encouragement of private effort by liberal grants in aid, the gradual devolution of Secondary and Collegiate education upon private enterprise, the extension of Primary education among the masses as one of the most important duties of the State While acting on the recommendation of the Commission, Government retained general control over all public educational institutions and continued to maintain alimited number of Arts and Professional Colleges in the Presidency town and at amportant centres. In spite of the vast progress made as regards increase an educational anstitutions and scholars noder instruction, and in spite of advance in various directions, the whole machinery required overhanling as axaminations and the preparation for examinations dominated the whole avatem of aducation A Commission was appointed to enquire into the working of tha Universities with the result that the Universities Act of 1904 was passed and other educational reforms followed The Government of India have given and continue to give what ficancial aid is possible to enable colleges and schools to make the necessary improvements under the altered coodstrone, in the teaching ataff, in the matter of huldings, hostel accommodation, educational appliances and in the equipment of laboratories

It is now onto years since reforms on all fours began to ha introduced into Elementary and Secondary Schools and alto all Ariss and Professional Gallegas throughout the Empire The Res Intion of the Government of India or the educational policy of the Sixto published in Belli on the 21st February raisons at great length the advance made, the improvements effected in all departments of administrational critical manufacturity and draws attention to some

of the more complex problems that remain yet to he solved. The statesman-like pronouncement fitly opens with a quotation from the epeech made by His Most Gracione Majesty the King-Emperor in reply to the address of the Calcutta University in January 1912 end which evoked great enthusiasm at the time and remains cushrined in the memory of the people of a promise of great things to follow. The whole document breathes the spirit of sympethy and deep colicitade for the genuine betterment of educational facilities and agencies. No one who reads it through carefully will fail to he impressed with the magnitude and many-eidedness of the eduoational problam of India, and the praiseworthy efforts made to cope with the eitnation.

It is refreshing to note that the Government of India place "the formation of character of the scholars and the undergraduetes under tuition" in the forefront of their educational policy and, while bound to meintein strict neutrality in matters of religion, they regard the question of moral and religione instruction as "naquestionably the most important educational problem of the time." The rapid increase in the number of hostels and resident male atadents is noted with eatisfaction and the Government of India expresses the hope that educational halidings of the future will be "distinguished as the most modern and commodious haildings in the locality." The paramount claims of bygiene in all its hearings on educational work and method is to receive greater attention, the conrace of instruction, elementary, secondary and collegiate will, as far as possible, " he diverted tu more practical ends" and provision made for higher studies and research work so that Indian students may

not have to go ahroad for such studies. Considerable spece is devoted to the anbject of primary education and the education of girls. For Enancial and administrative reasons the Government of India caunot see their way to make primary education compulsory and free. They however desire "the widest possible extension of primary edncation" and Local Governments heve been asked to make provision for free elementary education amongst the poorer and hackward classes of the population. In the matter of female education which hea repidly advanced during the last decade, in spite of social cuetoms which preesnt pseuliar difficulties, facilities will continue to be given towards further improvements by concession as regards fees and grant of scholarships.

Secondary English education is next discassed at some length as it is "the hasis of all professional or industrial training in India." Following the policy laid down in the Deepatch of 1854 and the recommendatione of the Education Commission the Government of India hold out every enconragement to achools efficiently meneged and maintained by private agancies. Acknowledgment is made in the Resolution of "admirable schools" mainteined by Missionary Sociaties and other hodies. introduction of the School Leaving Certificate echeme is regarded as a reform in the right direction and the Madras Presidency commended for progress in this direction. Next to the improvement of the pay and the prospects of the teacher the Government of India regard this as the most important reform required in Secondary education. As regards collegiate education the Resolution apeaka of the good work accomplished in the past and of the beneficial results that have followed succe the Universities Act of 1001 came into force. With the improvementa contemplated the Government of Ind a hope that "a great impetus will be given to higher studies throughest India and that Indian students of the future will be better compped for the battle of fifs than the students of the present generation." A teaching and residential University will be founded at Dacca and the Government of India are prepared to section under certain conditions similar Universities at Aligach and Becares." The establishment of Universities at annual places as Ilangoon, I also and Nagpures also contemplated.

The space at my disposal will not suffice wern I to make any reference to the various other departments or branches of learning the State holds steelf responsible for, such as, Technical education, Commercial education, Agricultural education, Forestry education, Veterinary education, Medical education. Legal education, Chicis' Colleges, Oriental studes. Schools of Art, Museums and the education of Mahammadans and that of the Domiciled community livery one of these is carefully reviewed and np-to-date sinprovements suggested. But all the reforms suggested and the improvements contemplated cannt he achieved unless provision is made for securing for all schools and colleges an increasing number of touchers trained on modece pedagogie matheds. This the Gavproment at India recogniss as a matter of great urgency and have desired local Governments to provide for the pressing peed in view also of the rapid extension of primary education This need I may add. is still further accountsated by the absorption in recent years into Government service of a large number of trained teachers employed in aided echools and colleges.

To all engaged and interested in the education of the land the Resolution brings hope and encoragement for the Intere. To the rank and file of the Teaching profession the most gratifying and beartening past of tha Resolution is the boon they have long looked for and the Government of India say that "they attach the greatest importance to the provision for the old age of teachers either by pension or provident fund" To the Managers of well conducted and efficient achouls and colleges who have struggled hard to make code meet the promue is given of "Special Assistance" to coable them to make the improvements called for and the grante-in sid will be un a more liberal scale and under a more clastic system

The whole Resolution is replete with valuable observations and far-spiked angestions for the education, in the treest sense of the word, of the rating generation and every one of its 02 paragraphs throbs with gession aympathy for the Limpire and its people, to guida whose destinces at this mentions period in their history Providence has given them Lord Hardings for their Vicceoy and Governor-General, a statement on wise and bread minded as his large-hearted and magnanimous. Long may hefure!

J P. COTELLEGAN

ELEMENTARY EDUCATION POLICY OF MADRAS GOVERNMENT.

An important feature of the Biodget of the Government of Mafars for the next year is very large advance of expenditure under Iducation neckeding the improvement and expansion of elementary reduction. The greater portion of this expenditure is non recurring and is does to the Government of Iodin making large grants nut of their surpluses and thereby materially applementing such amounts as the Provincial Governments themselves could spare. In view of the intrinsic importance of the subject of elementary education, the heavy additional recurring liabilities Government are assuming on account of it and the general interest taken in the development of Elementary Education, the following remarks by Sir Herold Stnart as to the Policy of the Government in this matter are contained in the Revised Financial Statement presented to the Legislative Conneil:-

"The goal we have set hefore unreelyes is the extension of elementary education to the entire school-going population. The attainment of this ideal is, ni course, beyond the resources of our provincial settlement, and the Government of India have recognised that the bulk of the finds for the financing of the new forward movement must come from Imperial sources. Anxious, however, to emplement Imperial aid as largely as we could from our existing provincial rescorces, we have closely scrutinized the normal development of our ordinary revenues and expenditure, and we find that by careful economy and without starving other services we can in present circumatances set aside e sum of two lakes each year in arithmetical progression from our provincial funds proper to assist in the financing of this great undertaking. In the current year we have provided this amount for additional recurring liabilities and in the hadget for the coming year we have added a further two lakhs But as I have said before, the hulk of the money has to be found by the Gorernment of India and the rate of future expansion must depend directly on the amount they can give us for the purpose. In the current year the portion of the recurring expenditure which they have supplied is 6 65 lakhs and for the next year they have given us an additional recurring subsidy of 6 80 lakes the greater part of which will doubtless be for this purpose, though at present details are not forthcoming. The prospects of future Imperial increments of subsidy

are not an certain as we could wish, as the Government of India refrain from making a definite pronouncement as to future instalments. We can only hope that the Government of India will find themselves in a position to make regular recurring additional grants. I must confess that I could wish the position were less indefinite.

"I shall now say something about the lices on which we are incorring additional ontlay on the improvement and extension of elementary education. The policy being pursued is to increase the supply of teachers by the offer of larger salaries and by increased facilities for training to secure the improvement of existing schools and to open new ech ole in both urban and varel areas. While it is exential to go on opening as many new schouls as possible in places where no school exists, we find that it is very desirable to place on a more permanent footing a number of the ephemeral teacher-manager schools, many of which are at present almost useless and are established one year and shut the next. We find a widespread desire throughout the Presidency nn the port of both teachers and parents that these schools should he taken under Board management.

"With regard to the opening of new echool mans are being prepared showing for each talue the area supplied by each existing school, and lists are under preparation of villages where schools should be opened as soon as possible. It is found that more rapid progress can be made by extending gradually outwards from existing achools rather than locating new schools in distant centres where the advantages of education are not yet fully appreciated. Every school newly opened under Board management is ordinarily provided in the first instance with one teacher and others are added as necessity arises and as funds permit, the number and scale of saleries following the recommendation of the Educational Rules. It is expected that during the current year about 1,700 new schools will have been opened by Local Boards and over 100 by Monicipalities. The corresponding figures for 1911-1913 were 696 and 19.

"The inspecting steff has also been increased by the appointment of 48 additional Sub Assistant Inspectors as a temporary messuse of rehel

The present policy with regard to the administration of girls is to apen schools for girls in as many places as possible where the population exceeds 5000 in smaller places the or called boys chools are as a rule, mixed exhools and every new boys school opened, provides some gule with education in their call'y verse.

"To ensura that this policy of improvement and expansion shall be carried out to the best adeas tage we have relieved Sir Alfred Bourne of an rounce duties by playing Mr. Stona on special day in the Office of the Derector of Public Instruction to carry or whaterer part of the Director's work can be made over to him."

NATURE STIIDY

MHE study of any subject could be effected in two ways. The first is the mothod of learning it from what others have said or written about it. The second is the method of sountrior knowledge shout it mainly by one's own efforts. Of these the former seems to be the more convenient one as the subject is more essily understood though the information obtained is of a second hand nature. If knowledge be valued for its own sake at does not so much matter bow we obtain it provided ite pullity is apparent. As the mere storing of the memory with a number of disjointed fects does not in itself comprise the development of one's faculties it is desirable to consider while acquiring knowledge about a anbject, the method of duing it also Thus viewed, as every one of our actions is made perfect by regular and systematic practice. that method which employe our faculties most will be found to be the best fitted for developing our mund to the fullest possible extent

Natire study, when conducted on right lines, effert wide scope for the realisation of the sam referred to above. Every one of our senses has to be brought into play in the study of nationer. Taking on object in natire, for instance a bird, we could first observe its form, then handle it and draw a picture representing its shape, hear its peculiar melody end exercise our reasoning faculty arregards the adaptation of its africture to its habits. Whatever be the object, knowledge gained by its observation and bandling council but he effective in appealing to our mind and making a deep and indelible mark therein

It would be well for us to consider here what Nature Study means It is not and cannot be a subject taught in the class room as is commonly done at present. It is not a muxture of Physics, Chemistry, Physsology, Botany, Zoology, Hygiene and all put together Nor is it a method of obtaining knowledge by elaborate scientific research or the like Though the study of paters differs in different parts of the land the method is all the same The only requisits in a student of nature is to wander about freely in the open air with his eyes open. He must be able to study every object that he sees from all points of view He must be able to cumpare one object with enother end note the contrast between them His knowledge of the abject will increase in proportion to the attention that is paid to it. Every minute of abservation will discover new features in the nbject more interesting and attractive than hefore "Au eminent botanist was once asked the question how many plants he knew sutmately He answered with truthfuloess that he did not know the full life history of any one plant, for the particular flower he happened to be studying was so wonderful and its biography so absorbing that the study of that one individual drove the knowledge possessed of all others out of his head."

Among the objects that we commonly find in nature there are a few that we love and cherish and many that we disregard and condemn. The All-wise Creator gave life and being to every object in nature with a cot purpose. Before characterising an object as useless it would be well for us to consider what place it occopies and what use it serves in the economy of nature. Bot for them human life would be intolerable. They are the mitigators of life's misery. They teach us good and noble virtues. They train as in pstience and perseverance. The heauties of creation fill our hearts with feelings of awe and wonder end from them we learn the Grace and Majesty of the Supreme Being.

P. RANGAHATHAN.

____ IN MEMORIAM.

To J. M. CHAIG, Esq., M.A., B.D.

To him no more the snn and moon can shine. Our kindly earth its wonders great display. No more-the sun in russet up his way, The eilvery orh to paleness thin declies. The stars, of brightness relt, to sorrow pine-This many a charming view of early dawn No more shall kindle bim, for he is gone? His vesture does with dust to dust combine There lies be low where all at last must go-He held us near his heart in bonds of love Who lived but yesterday, now is no more t How close to us is He that is above? So good a man must surely be God's friend. Rejoice, not mourn, at him whom engels tend. S. SRINIVABAN.

EDUCATION IN THE MAGAZINES. (INDIAN.)

Some Educational Ideals and Methods. In the course of his address at the meeting of the Madras Christian College Associated Societies. Mr. S. Sriniyase Iyengar spoke as follows:

We have gained much by the present system of education. We have the residential system and I hear that your College has already five bostels and is likely to bays a sixth. Corporate life is an outstanding feature of the new system from which I expect much. Another advantage is that increasing attention is paid to specialization. The system is not however without defects. I find more sod more that turtion is imparted in Colleges by means of lectures by professors, rather than by reading ; the studeot is made to listen to lectures in classes and he has plenty of home work. That I think is nadoubtedly a mistake so far as Indla is concerned

having regard to the nature of Indian Intellects. There has been a cry in various querters that the newer race of students is not as religious and as reverential towards their superiors as the older generation of students. But I have certainly come to the conclusion that the newer race of students is much better than the race of students to which I have the honour to belong. There ere some corrigible mental defects in the Binda intellects which ought to be taken notice of earlier, so that the next generation might be trained in the proper way. The Hindo intellect versattle, sente, subtle. refined if they willed, is locking in all the qualities of farmees, energy, scoursey, etc., which make for originality, the habit of looking below the surface of things in place of the babit of taking things for eranted. To remedy this we should make some scientific training as part of our compulsory system from the very earliest class.

In the early days one feature of the Hindu educational system was the Ashrama system. But it had limitations; firstly, it was confined to a particular class, namely, to Brahmans ; secondly the Ashramus were isolated, an interchange of idean was impossible; thirdly, they made every branch of knowledge religious, part of a revealed religion -formal and technical and unalterable or alterable only by quibbling.

For our progress we should go to Western methods of research. There is no use of boasting of the glorious past. We should constactly try to sequire some branch of science, for it is only in that way that we could secure habits of energy. method and accuracy. We should make up our mind therefore to have some judicious combination of our ideals with the Western ideals and we must reject everything that hampers our progress.

The Vernaculars in Schools

Indian Education for March contains on article on this subject by Mr P C Basery The following mitract will be interesting especially now when the sabject is urgaging the attention of all educations in this Peraddency

Much more stress needs be paid to the teach ing of Verneculars in our schools, then nat premain donn One is almost tempted in any that the verneculars are neglected in this school, it the strang for verneculars as properly conducted, it would efford no less mental training than the teaching of English, and would also help the study of English. Moreover a study of the vernecular is by itself important, and not much less metal than the study of English of the vernecular is by itself important, and not

- 1 Is it not true that nor boys abund first learn to write and express their thoughts in the verneonler correctly and lundly?
- 2 Should not the vernsculer be the first means to give them correct ideas about general things?

Both the above questions require an affirmative answer, but in practice we know that the teach ing of the venenciar is lift over to some satispated Psofits or Monivas, many of whom care more for found style then for thought and expression, and what happens is that composition in the venanciar is something subsend of except arraby

To look for arrangement or logical sequence as in the voruscular composition of even a Matriculation conducte, would be to assert for peafer in a pond, induced it may sound dagreeafed but it has not be studied as man Maintellet are mobile to the that to the Maintellet are mobile to write an application in the vernacular, say in Urdu or Bindi, though they have been stadying Urdu or Bindi, though they have been stadying Urdu or Bindi in this school.

As for the general leformation—scientific, historical, biographical and geographical—in he gained through variacular books, it may be surprising, but it is true, that the school blessry

contains out one book in Urdu, Hindi, &c., for boys to read, though it cannot be said that there ere an anatable books for hops in them lange ages. What is more putable is that it cannot be said that thermadars in Urdu, Hindi, &c., provided for the boys are suitable in style and matter for boys, and provide that smoont of reading end information which the boys require

What should we say of a school boy who does not know suything should thermometer, a bare mater are believe or should malaria or mholers? Should not thus information find place to the versacular books?

For thustyle and subject matter chosm in the vernacular books prescribed for our boys what can we say when they silow-say in the Urdn Martricolation course of the United Provinceshighly exaggerated and hyperbolic style, and phones sentimental posity and love posms for the reeding of boys and girls. I shall not speak of the teachers whose task is to expound these love matters, but noly ask of what usefulness these far-fetched fancius and exaggerated notions of the ald poets will be to boys It may be that Urdnie rich in fove poems and hyperbole mey be the lavournte device of some of its writers, but there is no nectan for these when botter things ere averleblu, which should be set as symmples to bors

Education for Chiefs.

The following as e portion of H. E the Vaceroy's speech at the Chief's Conference held at Delhi on the 3rd leatent --

I have no wish to fetter, in any way the action which you may consider it desirable to taken in the education of your wors, but I cannot refrain from expressing the opinion that no scheme for higher education, which is not framed with a strict comit deration for the after career of the students and the opining presenting themselves thum, can eliminately prove successful This is no nature.

School Education Some Reflections

Boys who have received the School Leaving Certificate are dec dedly oblar if an the Matri culates as far as their general knowledge in concarned, and in my opinion general knowledge in the only true test of a man a ship

But specushty has got its own advantages and they can not lightly be passed over the besile to leave a passage nitelligently end to master it throughly so the sure preparation for the understand ug and explanming of other parsages of so equal or even greater difficulty

But as the tendency of the University is towards econoraging the average of the intellect rather than loading the memory with faced hat test book it is at once were and advantageons to impact to the stodents such general education as may enable them to very reset their ideas logically and plently end with a certain degree of appropriate affectiveness and amplane. Now we have to see how this can successfully be achieved and we assumed do belief here then pot down the following seggations —

- (1) Boys up to class V should be required to appress their ideas in their vernscaler as such familiar objects as a black board a chair, a dog, a bunyon tree, an Indian besser, a tiger and a reliway estation
- (4) Teachers should address their students out accepts in the galactic from Class VI operated. The students of Class VI, VII and VIII should be required to write short easies on each famil are should be required to order to the theory. Buy a should be required to rehearse the dallogues gives no their books, or other to the dallogues gives no their books, or other the dallogues gives no their books, or other the dallogues gives no their books, they should be saked to reproduce in their own words and in their awa defective but simple English e lesson taught by the resolute.
- (3) Easy passages from the text book and other books of equal difficulty should be distated

to them every eliarusts day and mistakes should be carefully corrected and pointed out to them This system of teaching passages from books should artend to Classes IX and X as well

- (4) The stodents of Clesses IX and X should be required to make symposes of the important chapters of their text-hooks as well as their bistories.
- (5) Conversation should be held in class between the students and the class teachers at least once a week. These conversations should be such as are calculated to both sularge the meetal horston of the students and to apply them with a feuly large stock of oseful words and phrases.
- (6) A debeting socioly should be formed in which lectores should hoddivared and discossinghald on ordinary but osaful logics. A magazine abould sie be started in every achool in which contributions from utudules should be published after necessary corrections and improvements have been made by the class teacher or the editor.
- (7) Greet stress should be lesd on their head writing end the method of suswering questions Elliptical answers should never be accepted.

(6) Abore all things great heed should be paid to the improvement of the r power of speech end composition, for these letter two see in my opinion the veritable terminum ad guins of a University education—An Educational

WANTED .—Annotated editions of English authors or Notes only published by the Old Journal of Education Office, Madras. Also, back annual volumes of the Journal. Write, etating price and particulars to the Librarian, Native General Library, Bombay.

(FOREIGN.)

Pupil and Teacher.

"Paidocentriciem" is an ugly hybrid introduced by Dr. J. Stanley Hall, the well-knuwn American writer on Education, and explained by Professor Adams in the Educational Ness of Jenuary Stat. It means that view of education that places the pupil in the forefront in all educational theory and practice. Its neglect is found where the teacher rejoices in talking and teaching without endicately considering if the child is able to listee and learn. The teachers aim should be to scente that every his deaching produces its appropriate his of learning.

"It is remerkable," usys Professor Adems, "how seldom teachers give the pupils any help regarding haw to cet about learning. Quita commonly the only help given is the held instruction For to-morrow prepare the disjonctive pronoun, or the theory of iodices, or the Gulf-Stream. A boy who had never drawe a mep wee told by his mester: 'Draw a map of Regland for next Wudoesday.' The boy worked according to his lights. These showed him that the map in his atlas was divided up into little rectangles. Hu took these to be the onite of cooetraction, and worked up his Map rectangla by rectangle, producing a drawing that had sume at least of the qualities of a patchwork quitt. The teacher complained with some vehemencs that be could not onderstand how the boy could be so atupid, and by this complaint proclaimed his own professional incompetence. It is his business to noderstand such things,"

The Efficient Teacher.

This is an extract from the address of Mr-Rhodes as President of the Section of English Teachars, State Teachers' Association, Buffalo, who said:

"The efficient teacher has not arrived. Many seem to think thet enybody can teach English

and 'anybody' too often getn the opportunity. The teacher of English must not only have a personality, but he must be a reel person and have the right kind of a personality. He must be a prophet, a seer, so impirer of his popils. No man can drive or beat or can or drill or ang the lower of literators into the heart of en unwilling popil.

"The efficient tracher must be withel a sum and wholesome optimist, which implies being an equally sum and wholesome idealist, for to be an imapirer, the teacher's greatest privilege, one must possess these qualities.

"It is not enough to gat our popils to pass and' so leave us for the world or for college. The only adequate results of our work arean oppreciation of literature end a mastery of the langrage."

The Teaching of Literature.

Sir Arthur Quiller-Coech, in giving his leaugaral lecture se King Edward VII Professor of English Literature in the University of Combridge, edmitted that there lurked in the public mind a doubt whether English literators could be taught in the way that other school subjects are taught. Bu said that the study of Eoglish literature could be promoted in young minds by an elder one, and that their zeal could be promoted, their tasts directed, and their vision quickened. If we may summarize we may say that Sir Arthur neged the necessity of studying the masterpieces with minds intent on findiog out just what the author meant, and that commentators should not be allowed to obscurn the direct vision of the author. He made some severe allusions to the "endless stream of little school books, all upside down and wrong from beginning to end." The difficulty is, of course, well known and always present. The teacher does not feel that he is doing his work unless he is explaining all the time, and the popule have no cheace of etadying the author.

The Comma

Meurice Winter Mos, High School, Appleton, Wis, writes in The English Journal 1

The proper use of punctication, the comma in particular, is one of the first things to be taught in the high school course, fur if the pupil doce not learn it at this stace he never learns at thoroughly, and his work is always characterized hy a lack of readability and clearness, or hy actual ambiguity. But the cummon mathed of teaching the comme te almest aure to produce to the pupil's mind the very confusion that ought to be cleared up. The standard shetomes all contain a list of comma roles, varying from ten to twenty five, all thrown together without apparent order or reason, and expressed up the "thou shalt' form that gives the impression of an immutable decalogue delivered from some pedagorical Sines 'Take the rules for the comme for the next lessou," says the teacher, and Johnnie leps up the rules, with an example loresch, which he may or may not understand. But so his composition that week he leaves a none in apposition appoints of with bliesful paconcers, and when it returns to him blue-peopled, he gnesses that a comma or two is needed and meerts them-but goes on leaving his nouns in apposition to roam at large. Now lat us see if we cannot teach Juhume just what kind of an implement this little broom is, and haw to hold it properly and make the durt fly with it.

The first step is to be sore that the popul coming up from the grades known theroughly—as he ought—the ususes and uses of the ranzous parts of epoch and of the various members of the societoes. For instance, he must know a parturpinal modifier, know at once whether it as restrictive or merally parturbitated; he must know clearly the difference between a relative clause that ranzireds a none or primoses in the sentences and one merally thrown in fer explanation; he must resigned an advertish phrase or often explanation; he must trenguise an advertish phrase or often explanation; he must trenguise an advertish phrase or often explanation; he must trenguise an advertish prime or one merally thrown to fer explanation; he must trenguise an advertish phrase or often explanation.

sis regular order he will set it off as neturally as he writes "as t" Without this knowledge he is merely learning sets of words without knowing just what they mean

Next, he must come to ase year what it is that the comma does in the sentence. A typical unpenctuated presgraph on the board will make him reshire how colories and hard to read our language would be without commas, bow they are needed to stand between words or phrases to keep them from running together to a condused mass, and to persisten of ocetan parts of the sections to give them emphasia or show their relation to the raid of the sections.

Modern Language Teaching.

How the foliast, completest, and most fiberal education may be given by means of Modera Languages in the subject of a paper by Mr. Stackey Leadines in a recent instea of Modera Language Taching A co-ordination of language, theretize, so of history is what he same st— finanguage is the key to histerizer, linear use inhearing, history explance histories,—and of course accordingly is successary to the course-heaving of both history and histories. To often, however, history is treated as a apparate subject.

What can exeminers do in this matter, Mr. Leather asks: "Should our tests for boys of eachteen or nineteen still he trets in language sions, in trauslation, composition, and conversation, or can we be more ambitions?" The literature paper to be answared by text book knowledge finds up favour. "The test which I should like to ampuse would be a general paper on the History of France say from Haury IV to Louis-Philipps, and another on the history of Germany from Frederick the Great to Bismarck Thase should not be papers which could be answered from a text-book of history or a text book of hterature or both together, but papers intended to test the first-heed knowledge and intelligent study of the literary masterpieces of the period.

A Glory in Browning.

Mr. Norman Gale writes in "Greet Thooghts:"

"There is no post fit to be compared with Browning who of all poets is the man most shle to purify while stimulating the heart that is burdened by on overwhelmieg passion. Be it constantly ramembered, Browning is the most exacting of immortal consolars. He sallied an page, and he can tolerate un sollied heart. If be is to walk with os, conversa with us, allow us to lean upon his experience, he demands of us to show him our flame, to prove it clean, to convince him that it is fed by no transitory fuel. As soon as he is assored of our right to he in his company. with what hammer-strokes of valiance he heats npon our breasts! Look where we may io the records of literature, we shall find no other exampla of vivid largences worthy to be compared with that given to the world by Robert Browning not seen in the highest expression of the Golden Age of the Greek mind? No. Not even in the highest expression of the Goldeo Age of the Roman mind ? No. Not even in Shakespeere ? No. Since the human brain bas a apperlative genine for variation, it would be daring of me to assume that in days yet to be born there will not be heard a voice aven more mesculine and awakening than the voice of the post in whose breast the tides of feeling, with selt enough in them to weks them tainting, ren in fice shundance towards the coast of love; Bright-eyed, bright-hearted, brightsociad, this post had no time to spand oo tha weakling. For his disciples he needed men with sicews strong for loyel resistance, not man in whom flabhiness appears while as yet thay are only half way to the second chatacle. If ha had been valorous in difficulties only because ha was aware that io the end victory must raward his efforts, then he would have hear less the baroic epirit hy whose example we can he helped across wilderness of almost indescribable emotion. But he taught ue the desert as well as the casis, and ha charged lovers to ha illustriens in defeat. He saeg upright carriage for the vauquished; ha sang the unabaken lip; he sang the heart valuant enough to lose ell and yet remain unroused. To him the moment of downfall was the moment for struggling to rise."

Geography in the Class-room.

Mr. E. C. Hodgkisco, n.A., Assistent Master at Crawe County School, contributes an interesting article on Geography Teaching to the "Edocational Review," He says:—

Much of the indefiniteness that has characterised the teaching of geography seems to have resided from the host that so many have taken up the subject as an after-thought, or regarded it as merely accessory to more important analysis. On the Arts man geography has afforded an opportunity of pleasance of the subject of the subject as a first of the subject of the s

This will be readily acknowledged if the sima of the stody be considered under the following bands:—

(1) The earth as the shode of man, including the physical conditions that here determined the present state of development in various countries, and a general cutline of the regions of the earth-(2) The representation of the whole or of perta

of the earth's corface.
(3) The earth as one of the beavenly bodies.

The teacher is fitted for the work ontlined

store by the messary of such books as Hasly and Gragory's Physispraphy. Knowledge of the home district may be sought in the Cambridge County Bistories or other treatworthy works. Every teacher should see the Georgabiant Jerund, he monthly publication of the Royal Geographical Society. An excellent example of what may be done in the action of the treatworth which would be soon in the number for November 1912, which contains an admirable action of the Type region.

For the proper treatment of other conoctions wide course of reading is necessary, all kinds of tooks of treat should be run of the conoction o

THE UNIVERSITIES

MADRAS UNIVERSITY.

With reference to the vacancy on the Syndicate caused by the retirement of the Hon bito Mr. Justico P R Sandara Aiyar, B A., B L., it is notified that the same gantleman has been duly re-elected as a momber of the Syndicate

Recommendations of the Syndicate

At a meeting of the Secale held in the Senate lloses on the 7th instant, the recommendation of the Syndicate, that certain gentlemen who had been receolly approised Ordinarr Fellona of the University be assigned to the Faculties of Aria and Law, was approved

The recommendation of the Syndicate for escaption certain students for the University Examinations from the production of ettendacoccertificates was granted

Taking Degree in sheentia

Rev E M Macphail than moved to meet the word "ow who from some unavoidable cases in unable to be present in person" in Regulation 68 after the words "at the time" Regulation 68 after the words "at the time" Regulation 68 arona thina-"A candidate for a degree who is not readout within the territorial huntle of the Unavesity at the time or who is precladed from appear aty at the time or who is precladed from appear Regulated back and the second of the second produced back and the second of the second for the second of the degree at the annual Convectation in November or December "

In moving this proposition he explained the object of taking degree in absentia Sometimes a candidate might be snaido the territorial limits but might not be able to come and attend the Convocation owing to illness or some other cause To meet those conditions it was necessary to after the Regulations At the same time in order to prevoot people from faucring that certain causes were muroidable they should raise the amount from Rs 10 to Rs 25. Thus there would be a substantial money payment by persons who were taking degree in absentia Ho would therefore move first that portion of the proposition which was put to the meeting and carried Mr Middle mast seconded the motion Mr S Superasa Avyangar moved that the clause for who as precluded from appearing in public " be omitted

Rev Macphail then moved that Re 10 be altered tato Rs. 25 in the same Regulation. He and that in order to avoid the possibility of a large number of people taking degree in absentia

a substantial pecuniary charge should be levied. Then the prigitize of taking degree in alsentia mirht not be abused. There was a tendency for people to say that certain causes were nnavoidable, that they could not come If it was worthwhile to take degree, let them pay a good sum Rev Fathor Sewell seconded the motton Mr S Scinitate Alyanger moved that Re 25 be reduced to Re 15 He said he was against the enhancement of free altogether case the majority of the House was incheed to rate it he proposed that It should be raised only to Re 15 Mr Natesan accorded the amend mont Mr C P Ramasuemy Aiyar, Sir V C Desikacherry Mr. Ramanoja Chariar of Pachar Jappa's College, and Mr. Ramanuja Cheriar of Malurajah's College, Vizianagrum, were all against the enhancement of fees The amendment was out to the meeting and lost

The substantive proposition was than before the figure

Mr Justice Soudars Airar said that the reason that estuated the Syndicate to raise the fee was that the Syndicate had to decide whether the cause put forward by candidates was proper or He saked the gentlemen who opposed the motion, to consider whether it was an easy thing tn decide whether the causes put forward by rerious applicants were unavoidable or nut. The object was to fix a figure which would be sufficiently heavy to induce people not to make vain escuses It was the desire of the Syndicate that as meny people as possible should attend the Convecation A fea of Rs 25 would not be excessive end would be a sufficient check on people who would otherwish absent themselves without good grounds. It was difficult to say Ho did not what exact figure they should fix see how Ra 15 woold be hotter than Rs. 25.

Dr. Bource pointed out that if e candidate was makin to come and take his degree in a certum year he could wait till the next year and there was no charge for that. And further the fee was not exactly as a fine. It was e payment for a dathnot privilege and for convecionce. It was usual see 20 Vouvezatige.

The Han Mr T V, Sashagur Ayar raid be sound not understand how the face could be sired in consideration of the Sameto deciding whether the cause stated to be unsverdable or a particular case was so or not Hs was of opinion that Hs 10 cought to be sufficient. The Hon Mr V, S Sciaurasa Sastry was also against the raining of Ahan fee.

The Resolution was put to the meeting and carried.

Attending the Convecation.

Mr. Macphail then moved to amend the followiog Regulation (68):-

Candidates for degrees must, fire clear dege before the day fixed for Convocation, inform the Registrar in writing of their intention to be present. No person shall be admitted to the Convocation who has not thus sent in his name to the Registrar. Mr. W. J. Prendergest seconded the motion which wes carried.

Licentiate in Medicine.

Lt. Col. Giffard moved to alter Regulation 252 relating to the exemination for Licentiste in Medicine and Surgery by not requiring candidates who had passed in the Physical Science or Natural Science Group of Part II for the degree in Arts of this University to pass in any of the subjects laid down for the first examination in which they might have already passed at the examination for the degree. The proposition was carried.

University Lectures.

Mr. Justice P. R. Sunders Aiyer then moved that the list of University Lectures proposed for the Academic year 1913-14 submitted by the Syndicate for anotion nader Regulation 394 be sanctioned by the Senete. Mr. B. Hecomanths Ran accorded the motion. Mr. Ramanuja Chariar said that it would have been well if the Syndicate had arranged for a coorse of lectores on the history of the Telugu Language in which caudidates for the B. A. Degree Exemination Pass Course had to be anaminad. There was no book written on the subject yat.

Mr. Natesan moved that the matter be referred to the Syndicate for reconsideration. In giving his ressons for so asking be said: From a careful study of the syllabus laid for the Honours Course and of the names of the gentlemen selected to lecture upon subjects on behalf of the University, he found that some of the gentlemen were teaching the identical subjects in colleges for which they were either paid by Government or by private bodies according as the Colleges were Government or private. There were certain subjects which ought to be tought by inter-collegiste lectures and

there was no payment for the same. Mr. Bamslinga Reddi said that the Professora were giring University lectures but not lectures in a private capacity.

Mr. Natesan then pointed not some more Professors came under that category-Professor Mackintosh and Professor Crawford.

The Vice-Chancellor said that it was admitted that those lectures to some extent covered the

grounds of subjects taught by some of those Professors in classes.

Mr. Natesan said that such a state of things should not be ellowed to go on and that the matter should be referred back to the Syndicate for reconsideration.

Mr. Justice Sundara Aiyer explained that the desire of the Syndicate was that the University lectures should be of a very advanced nature. not merely lectures which would be delivered to students studying for Hopones Course, Who would to able to deliver lectures except those Professors who were teaching the subjects? The intention of the Syndicate was that the lectures should show special research. The object of such University lectures was to stimulate research on the part of gentlemen who were devoting their fives to the teaching of particular subjects. He fally believed that the lectorers would make on earnest and honest effort to delivar lectures higher than ordinary lectures.

Mr. Mark Honiar explained that the lactures ware to be delivered out of ordinary collage hopre and they could not be provided for in the inter-collagiste cooree of lectoras. There ware extra lectures eltogether outside ordinary . college bonts and the Professors had the right to claim rempreration for the tame. If the Senate should say that they had no right to claim remuceration, he would protest against it. Her. G. Pittendrigh else pointed out that the lectures to be delirered by Mr. Crawford were artra fectures aftogether.

Prof. B. Hanumanthe Rap seconded the Resolution which was put to the meeting and carried,

Position occupied by Languages.

Mr. Merk Hunter then moved for adoption of the Report of the Committee of the Senate appointed on Merch 2, 1912, to consider and report upon the position occupied by languages other than English in the various courses of study and to frams and present to the Srnate any proposal for alterations in the Regulations that mey be considered desirable in order to ensure more attention being baid to such Innevertes.

The following were the Resolutions adopted by the Committee which the Syndicate placed b.fore the Senete:-

(1) That it is unpecessary and undesirable to recast the saisting general ectame of courses end esaminations so as to render the further

study of Indian languages compulsory for oll

Intermediate or B & students, or for eny group of auca students

(2) That no real improvement in language atudies is likely to result from such modification of the general scheme

of the general scheme

(3) That it is unnecessary and undesirable to
modify the enisting Regulations for Park II of
the Intermediate course examination

Io moving the Resolution Mr Hunter made a speech in the course of which he said -

The Committee after neviting opinions from the filliated Colleges, and sites a very full discussion, resolved by an overwhelming majority, that it may be describe to extend the companion, times as the majority strongly half, the ordy of I doing languages world be much largely to suffer from the bacast aged expension.

tepalop "This conclusion the Committee invites the Senste to adopt If it be adopted the Committee will then be free to coender how language studies may best be promoted on the optional principles sed though it would be feelish to minimise the difficulty of the problem we do not doubt that methods, really effectual, may be dis-covered and applied It, bowerer, the Sensie rejacts the Committee e Raport, the Senete will then be confronted with another quest on-a question which scarcely came before the Comunites at all If the Senate concludes that the language course will becefit by the adoption of Mr Srebagiri Aigei's proposals, we will then have to consider whether the gain to languages will be sufficient to compensate the loss which other subjects individually-which the coorse takan sas whole-may scatum, and this, I would impresa upoe the Senate, is a very serious matter You cannot samply threat an additional compul sory anbject into the courses

sory anosectate the courses "Lifedonbiedly, it ameasses for the Umercasty to encourage the study of Indian lenguages—noting the termanolers—in asother way and with a view to other ends We have to smoorage the study of the tractures on rational principles and the study of the languages on critical lines. Thus the Committee believes "on Warner tool that the optional system hed broken down that succept any student has slected or its electing to take the optional system hed broken down that succept any student has slected or its electing to take the optional system hed broken down that succept any student has slected or its electing to take the optional system hed broken down that succept any student has slected or its electing to take the optional system her 7, to have been gradly exaggerated. The number of students was group III of the Shokordinate Course 371, or many thereth at the total number of abdonis taking the group.

and nearly a serenth of the total number taking the course. Some of those students co-doubtere studying European languages, classical or mindern but in the great majority of cases the languages studied ere Indian languages

"These figures, as the Committee thurks are, for a beginning distinctly, satisfactory. Already on approachle animber of audents have elected to study induse lengthers from percent taste and preferences, and is the Committees continued there is more hope for the fature of such studies when 12 or 16 per cost follow them freely from personal choice thes there would be if 100 per cent studied merely occumplates

"On all sides, we are told, that the language courses do not attract because thay are taught by Paudsts whose methods of teaching are nonteresting, nucritical, obsolete and bad

" In the face of the evidence, it seems to me, that the Committee would not come to the conclusion other than that arrived at, use,, that the University caenot, with any sort of justifice tion, compel ell candidates for a degree to pass through courses in which the methods of stedy and instruction our still fairly be described as nonnteresting, uncriticel, ubsolete and bed Moreover the evalem of compulsory Panditconducted conrece bee been shundarly triedwe have had meny years of it, and it is seriously open to question, and have been aboudently found wanting We have as the final result of meny years of compoleory Pondit courses, little or nothing to show There is therefore amell hope that what has proved so signal a failers in the past will be productive of coything bot failure in the futore

I move that the report of the Committee be adopted. Mr. G. V. Appa. Row accorded tha motion

Mr Venkstarouga How then moved that the Report be reported na ultra vares as it was not in accordance with the terms of reference. The Report was slingether different from what the Committee was acked to report

The Vaco-Chancellor raied the motion in order and called Mr Scabagiri Awar to more his amendment

The Hon ble Mr Scahagur Aiyer theo moved the following amendment —

That, in Agandam No VI, the motion be smeuded by the addition after the word 'adoptad,' of the following words — schiect to the modifications'

(c) That, in the opinion of the Senate, it is necessary that the study of Indian languages,

abould be made compulsory to the Intermediate Course

(b) That, in the opinion of the Senate, it is forther necessary that the endy of Indian languages should be made compulsory in the Pass Corne of the B A Degree examination

In doing so the Hon'ble Mr Scabagira Aiyar said that the whole compoleory system with regard to vernacular languages was not a signel failura to the past as was remarked by Mr Mark Hunter He hoped that the upinion of the Committee would not weigh with the Senate It was not a representative Committee Certain names which were not et first mantioned were anhanquently They were persone who gave their opinion to a definite manuer The mepiration of many people comes from the literature of the country The interests of those people were not likely to be advanced by the study of cheep literature sech se novele and other books now written in modern prose. He was awere that a large number of Indians had voted in favour of the Report He would sek them to reconsider the position of the vernaculer literature of the country if the lenguages were not made compul sory It might be very well for a foreigner to acquire a cort of knowledge in the vernacolar languages by the study of cheap laterature The children of the coil abould acquire a sound know ledge of the vernaculars by the etudy of books of epproved merit An Englishman woold not ask his children to read some novels and ecquire some knowledge which would enable them only to read and write with floency and ease he not sak them to read Milton, Shakespeere and Chaucer The curriculom should not be horden At the same time they should see that the country was not denationalised It was shouldedy necessary that there should be com polsory vernecular in the Intermediate

In asconding the emendment Mr C P Rama swam: Aiyer referred to the numerons complaints made against the Secondary School Leaving Cartificate system which it has been asserted fails adequately to maint on the compulsory aspect of vernacular education, and the existing University courses At no stage in the University course, he said, need a candidata necessarily etndy any ni the vernaculars or except so far as is necessary for the intermediate composition and above the Matriculation standard even if ha decides in study one of the vernaculars ha can only do so either along with certain specified subjects or with a classical language. If under the old acheme the Government of India had to point out that the neglect of the languages of the

country by the endmary University gradate of the present day a nontrona, we might well wonder when the results of the new system would be the theory of the new system would be the development of versacing to the system of the Government of Ladiesas in 1960 their thought of the University education are to do the heat for the country with the education they have received, it was imperative that they should preserve a soond knowledge of the versacilies

The Committee of the Senete was appointed m arder to focus educated public opinion on this enblect But the procedure adopted by them had been most unsatisfactory The Committee in formulating questions issued to sfillisted colleges seemed in have committed the initial arror of mestaking the effect for the cause take one perticular lostages the Madras Christian Collega had 318 students in the Intermediate classes for the year 1911 1912 and 302 for the year 1912 1913 and of them, though a majority seem to have selected vernacular composition in preference to tracalation from a classical lan googe yet the figures regarding group III proved that in this the most popular and division the vernaculars were really nowhere, only 33 at odante baring eelected any of the veroscolars. The obvions explanation was that whilst ternacular composition is considered easier than the mestery of e classical language yet baving regard to the collections of subjects, tu group III the languages are taken up to the large majority of cases for the ample reason that History and Logio go together more sauly then History or Logic and one of the lengueges Moreover by maisting on two lengueges as ac cessnitel for the B A Degree necluding une of the classical languages at was adle to expect that an Intermediata student would specentrate his attention on a ternacular

On the mean question the second grade colleges by a large insportly had declared that the compulsory study of variaculars after Matriculation is both necessary and desirable

In this state of opinion it was remarkable that the Committee should have arrived at the heistate goodnesson that it was unnecessary and undestrable to overteast the saving general actems of concerns and examination so at ore codes the further study of Indian languages compolicy? for all Intermediates or D.A. students

On the whole the Committee had not founded its opinions on any definite or numstakable data and had not aren proceeded consistently on the basis of agreeing with the consumes of opinion of the collegts. In the first place the Committee failed to keep promissorly before its mind that it was appointed to frome and present to it a Senste to popular for attentions in the Regulatoos that might be considered dee rable in order to emission more attention brug paid to vernaciale lan gange. Such a Committee has appointed in the language of the pronounce its compiler to the propose of the language of the lan

Rev Macphail in opposing the amendment said that the study of Indian languages was already compulsory upon almost all candidates in the Intermediate course Part II (composition) of the course for the Intermediate examination was compulsory He did not understand what was meant by Mr Seshagiri Aiyar How could one study the composition and yet did not study the language? How could a person write a language well without knowing it well? People were now learning a great deal more by vernacular composi tion than by the old Pandit methods The whole controversy arose from an attack upon semaculars, when Government put in the Intermediate course compulsory Vernacular composition A large number of people were up in arms against it The whole attack was originally directed against verna culera It was rather late for them now to wring their hands. He had known several brilliant studenta taking up in the old Sanskrit system and they knew precious little of their own vernaculars The present system was doing a great deal for the vernaculars He would not go and ask his child ren to read Shakespeare or Milton They could take up any English book and read it Under the old system of compulsory vernacular languages, no student could understand one word of classical language without the Pandit coming to explain it If that was the education given by Pandits it was of no use whatever The same old thing conti nued from the lowest class to the h ghest class They should not be guided by sentiments but should face facts. He was extremely sorry that English was a compulsory language in India. He would give freedom to every one to take up any language It was better that 10 or 12 persons take up an earnest study of the vernacular langu ages than a lot of persons devoted indifferent ettention to the same. All they wanted was to ese good vernacular literature growing up He was utterly opposed to taking the retrograde steps.

Mr Cotelingam in opposing the amendment said that composition made the study of verna culars compulsory. In the majority of the schools in the Presidency, more careful attention was

being paid to ternaculais than in the years gone by Composition tested ones knowledge in a language. By the system of compulsory composition, vernacular education was bound to advance as years rolled on

Mr Justice Sundara Aiyar confessed that he as Chairman of the Committee was not altogether satisfied with conclusions of the Committee. At the same time the evidence collected by the Com mattee and the information he has been able to gather convinced him that things were moving forward fairly well Even taking up the question of vernacuar for the Intermediate course he would not dislocate the arrangement that had already been made He was not present at the last meeting of the Committee He thought if he had been present, perhaps be might have suggest ed that e passage for paraphrase might be added But now after more information had been received on the subject he did not think it necessary to go further and press it just now The Committee did not say nothing more could be done at any time He agreed with the present Resolution and thought it was better for them to wait and see Dr. Bourne proposed that the meeting be ed

jourd tr 3 2 M on the 8th instant

Bur Alfred Hourne, At the resumed meeting of the Senate on the as see resumed messing or the census of the birector of Pable Instruction, wished to make a few observations. Its said that they should hear but saids of the question. Whatever might be their opinion is educationists there was the opinion of the people who apike those languages. He was not at all sare of the Committee had as yet sofficiently deals with the evidence before them The spawers showed there were difficulties due to want of standard tack of terms or poverty of the language difficulty of expressing Western ideas in the vernacular leability The Com to think in the vernscular and se on mettee bad before it a mass of opinion that there ware defficulties in teaching varnacular composition They came to the conclusion that it was unnecessar! and undestrable to modify the existing Regulations for Part 2 on the Intermediate Coerse. He did not know whather that meant that the words of the Regulations need not be allered That might be so or might not be It was quite clear that something about do done to improve Part 2 It might not be by attering the Regulations but by matructions to LES minera with regard to the books to be used metractions such as were commonly and frequently seemed by the Syndicate which would of course also have statutory power by hence mode of the setual have statutory power by hence embodied in this setual Regulations. He would himself like to adopt the report of the Committee except one portion of it. The Serate should reconstruct the Committee of the Committee Sepate should request the Committee to consider again in view of the evidence before it whether by as arranging the Coerse in Part II they could not secure e really efficient study of those languages to the extent ur standard which was desirable to make compulsory on every candidate for the Intermediate Course It was quite clear that although the com position might already be doing some good, it was not regarded very seriously. If two hours a week was all the time the scholars devuted to those langu ages, be was quite prepared to say it was not enough Various smeudments besides those of Mr Sesbegiri Aiyar had been put forward Those amendments were su ettempt to improve Pert II uf the Intermediate Course. The second question was whether the vertuculars should be introduced for all candidates who passed the BA Degree. That question was not tunched upon in the meeting of the previous evening. He was rather in fewur of introducing it in the Pass B A Course also by modifying the Regulations in a suitable way, similar to Part II of the Intermediate Course

Mr K B Ramanethan

Mr K B Ramenathe Aspar in supporting Mr Seabagirt Asyar's amendment said he was not astisfied with the report of the Committee Thu question of the position to be occupied by the mother tougue should be satisfactorily settled They must try to get from the Peodst slt the good he could import. They should improve him sad not dispose him off in the menner the present, errenge ment seemed to dispose of him If they made it impossible for etadeute to learn the vereacular in the early stage, any amount of interest they might creete elterwards would not make up lost opportunities For composition purpose, familiarity nth hocks was chaolately uncessery He would not see decry the stody of modern nursh in the vernaculers. The HA Honour Course should be so revised as not to make the Second Language Coorse a compolsory one The second language question was in an amoutied condition and an they were ubliged to be tinkering at this question till they could get a satisfactory state of things In the metter under discussion the European gentlemen were out of court. The man who were the shoe should say whather the shoe fitted him or not. It would not du to say that those who upposed the sdoption of the report were guided by sentiment

Mr. H J. Allon

Mr Allen said that there were no test-books m vernaculars Further a lot of money (30 lakba) bad been epent by Colleges in putting the new Begulations into force before one examination was conducted under the new Ergulstions Be saked the Sensta if it would be reasonable to revise the Regulations sgein Mr Azienddin Sahib

Khan Bahadur Az zuddin Sahih in uppeating the smendment, said that if vernaculars were made compulsory Mussalms are likely to suffer In the High Schools and Colleges there were no Munshis at all Erau if there wers Moushis, they were most deficient. He would speed to their Hindu brethren in induce their children to pay

more estention to the etudy of verusculars. He was of opinion that the Committee was not ettempting to stiffe thu progress of vernsculars.

Mr V S Smalveez Saetri

The Hon Mr V S Srinivaes Sastri in supporting the smendment quoted figures to show how many students were taking up Indian veruscular languages in the Intermediste and BA. Courses suce the introduction of the new Regulations in the second grade and first grade Colleges and said that Sonekrit seemed to barn gained very much. Under the present system they did not see a very large unmber of people taking to the study of vernacular languages with the cuthusisem which they would desire to see There were only 8 Colleges in the Presidency that provided for Branch VI of the B A Pass Conrse No College in Madras made provision for Breech V1-neither the Presidency College nor the Christian College The way to better the con-dition of vernacular languages was not by doing eway with the Paudita slitogether Unless cos stodied the classical books uns would not be shie to express himself with effect power and branty, It was his desire sod the deare of others to put the second lenguage in the place it once occupied before the new Regulations came It might be that it was a matter of secument, hat in that respect they could not be asked to forego their sentiment.

Mr. C. Ramalinga Reddi.

Mr C Remelings Redds in opposing the emendment said that the present system was much better calculated to promote the interests of verneonlers The correctium had very little to du with the number of students teking up e veruecular. There were more students taking Telugu. The compoleory system of vernacolars was not popular The preseak system which encouraged Sanskert learning coold not be said to decationalise the country The Telogu peopls were keen on social reform and wanted to popularise new ideas. Mr A. C Pranatharthihera Aiyar

Mr A C. Prenatherthihere Aiger in exprorting the amendment, said that under the present ayatem atudents had very is we hances to study vernaculars It was one of the five options subjects in the third group of the Intermediate Course If they thraw uverboard all the verosciar intersture, were they so west for a completely new vernscolar literature? The question was how to improve the present interstors If vernscular composition was compulsory, test books should be solveduced for compulsory study Otherwise the whole curriculum was bound to be pulled down one day or other On the cultivation of the knowledge of the mothertongue, the good of a country depended

Mr Yekub Hussain.

Mr Yakob Hussein said that the Committee left the question of classical languages severely slone. The study of classical languages was very important in the study of modern languages. The verus. culars could never develop if the scholars were

TECHNICAL EDUCATION.

Typewriter Topica.

Fention at the machine —A brigh seals is moces say and that ballo on wheat the machine is placed should be of such a height that when the appearant state tot, his obbows are about one level with the key hoard Harse the arm unchend slightly downward from the abows Too Larder or the state of the state of the state of the continuous states of the state of the state of the trade of the state of the state of the state of ready to light upon the keys whom required Six close to the machine.

The Other Ribburs—This Ribbus mores as design-time started from spool to spool and whose one ado to subsuated and a singhtly heavy pressure will be required you can main it act as the contract of the contra

CALCUITA COMMERCIAL EXAMINATION

Examinations to Shorthead sod Typewriting, to connection with the Bangal Government Commercial Course, Diece Centre will be held in Daces next month Particulars can be obtained from Mr F E Biss, the Secretary of the Examination Board Daces Centre

THE VICTORIA TECENICAL INSTITUTE, Madese

The sunsel meeting of the Victors Technocs Institute was held at the Institute Buildings where there was a large and distinguished gather ing present like Eccellency Leaf Teulland leap to the chart. The proceedings of the meeting to the chart of the proceedings of the meeting Institution for the year 1912. See Handle Start moved the adoption of the report which was seconded by Mr Justice Stdaars 1yer. His Excellency in condening the meeting made an untoresting speech of which we give us as strend in norther page. Set Jub Attenton proposed a time the proceedings of the chart of the terransition of the process of the chart of the terransition of the process of the chart of t

THE PITMAN CERTENANX—CELEBRATION AT

The centenery of the birth of Sir Issue Pitman, inventor of one of the perfect alphabetic system of shorthand which goes by his name, was cafebrated at the Y M C A Hall, Chowragese, mader the presidency of Sir Lawronce Jestics. Ched Josticce Blangal The footcom was largely stiended by compleyers of shorthand labour, as well as shorthand writers in active work in various spheres of life. They modaded Lady Jostica Mi, Justice Hollmood VI. Justice Cir., the Hon bie Maherey of Nashpure, Mr Wiglay and Mr. A. W. Weston, I CS. The shorthand learners of the naty mustaced atrong me like orration.

Me ALESED CHATTESTON IN MISORS

Mr Alfred Chatterton, the head of the Mysors Department of Industries, has been enorting to develop substrial notivity there. He is designated 'Director of Industries and Commerce,' and he duties are sized to comprise.

(I) esseting private individuals by advice and loans or in any other menner considered necessary to enable them to start andustrise and new busi ness concerns . (2) formishing, as fer es possible free of cost, estimates, schemes, prospectuses, erticles of essecuation, ele, to prirete cepitalists and also to hodies of persons, envisor to sterk joint-stock indostriel or trade concerns, (%) ex persmental anstellations in andustries and mennfactures et the cost of either Government or private individuals; (4) collecting and maintain ing correct statistics of indostrice and commerce for the whole State on well on for important trade centree, (5) industriel spriey, formetion of centref industrial depot, e museom of industrial machinery and commercial products, and on soformation bures a, and (6) atody of markets for Mysore products

We are told at a the schemon of the State Government, but the Director should as far as possible, daroin apecul attonion to atmulating private colargers and private colargers and private initiative to in destinct end of the color of the property of the schemol for the propess stated below —(1) as severing factory, He 5000 (2) recoverable advances to wasvers, site, He 5000, (3) working there sugger-cance plunts, He 25000, (4) sub-reading experiments, Re 5000, (6) a greatly experiments, Re 5000, (6) a greatly experiments, Re 5000, (6) a greatly experiment of the color of t

THE ASSOCIATION OF BOOK RESPING TRACHERS,

The exemination in Book keeping (Elementary, Intermediate and Advanced Grades) of the Association of Book tesping Teachers, London, will be held at Trichinopoly, in the first week May near May near the state of the state

TECHNICAL EDUCATION AND EVENING SCHOOLS, LONDON

The report of the Education Committee of the London County Conneil on aight years of tach nical education and continuetion schools-mainly evening work-compiled by Mr R Blair the Education officer, was issued last minth It is divided into twn parte, the one dealing with history and administration and the piler with subjects of instruction A chapter in the report, which is bound to receive considerable attention, is that which deals with avening schools, aspecially when the remarks made by Mr S E Bray, a Dietrict Inspactor, in his mamorandum, are read with the description of the German system given in Appendix H. Mr Bray says that at pressot the greatest need of the avening schools is stability of stteodancs -s anbject which must claim attention equally in connection with the extension of elamentary education in India among the agricultural and artisan classes. In the first few weske of the session averything goes fairly happily in this respect, but shortly after this the falling off in the attendance begins and "assumes disquieting propurtions as Christmas approaches" In no school, taking the sessione as a whole, is the attendance regarded as satisfactory. Most of the irregularity in attendance is said to be doe in tha student a own shortcomings It is thought, however, that there would be less " sheentacesm " if evening schools were not huilt so largely no the lines of tha day echools. It is exceptional too, for an employer of labour in taka an active interest in the eveniogedocation of his amplnyees In Cormsuy the distinctive lasture of the contiquation school system is the recognition of the priocipls of compulsory stiendance. The Im-perial Labour Law of 1891 imposes on all employers the obligation of giving in their amployees onder 18 years of sga auch leava of absence from work for attendance at continua tion schools as the local authority may prescribe A decree of 1904 enjoice that compalsory classes should he held during the working day and not in the evening or co Sundays-thos avoiding the difficulty asperienced in this country through the fatigue of thosa who attend evening classes

XIX

alter a hard day's work. In the introductory chapters there is an interesting review of the growth of technical instruction with statistica al attendance at the schools The number of enrolled aindents at polytechnics, schools of art, evening schools, ste , fell from 199,109 in 1904 5 to 176617 in 1910-11 There was, however, a considerable increase in the number of hoors ni attendance per stodent-to the evening schools alone there wes an increase from 38 to 46 The cost of maintenance has nocreased largely, the total in 1904 heing £369,400 es compared with £470 038 in 1910-11. Other chapters in the report devota to the training of teachers, trade schools original research, schools of ort, and physical training

SHORTHAND AMONG THE ANCIENTS

Shorthand is so lotimately associated in our minds with the rush of modern times and methoda that it is ctartling (says a writer in the Philadelphia Record) to learn that some form of it was konwn to the ancient Greeks and Romans. Yet there appears to be little doobt that the orations of Gicero were reported with a skill and rapidity equal, perhaps, to those of many modern atauographera It is, however, difficult to state just how old is the system of abbreviated writing The Greaks celled at tachygraphy. Xenophon is beliated to have amployed this system of taking notes of the lactures of Socrates, which would take at back to the fifth centery before Christ. This is disputed by some authorities, but there seams to he no doubt about its usa in the first century By some it is hald that the development of shorthand was due especially to Marcus Tullios Tiro Boru in Latinum in 103 BO, Tiro, who was a clava was reared with Cicern, who was some years his innior Freed he became Cicero's Secretary, and in this especity asded him greatly In the femous trial of Catalina (63 B C) the stenographic skill of Tirn was abnum at ite height. In the first century before Christ a discourse of Cato Uticensis was, secording to Platerch, taken down by shorthand reporters Early in the third century of our era se aneountered the term " semelograph " (steno-graphin character) used by the Creek orator Flavinus Philostratus Origen of Alexandria (AD 185-254) noted his sermone to shorthand, and Socratee, the ecclesiastical historian of the lmurth century, said that pairs of sermons of St. John Chrysostom were preserved by the same process

Reviews and Motices.

CAPTAIN COOK'S VOTAGES OF DISCOVERY (J M DENT & SONS) 6d

Captain Cook is smong the most illustrious men of action in the History of Fugland The deeds of the great here are likely to sespire the moblest kind of enthusiasu in young minds and Messra Dent & Sons must be thanked for placing his life before them After the preliminary biogra phical introduction, the editor has made Captain Cook bimself tell his own story of exploration Even the casual reader of Cook a writings must be struck with the effective magner in which be in able to imprass himself upon his mind, without any stiempt at literary excellence or rhetorical polish We have no heatation in recommending it as a text-book for our boys as it is full of thisling adventures in the cause of Truth

Tade Annala of Rajasthan, by C H Parke, (Routledge) 3s 6d

The buge volume of Tods Annals and the absence of any good edition of the work has long rendered a brief adaptation of some form absolutely necessary Mr Payne has done the useful erryice of collecting the most impor tant tales in Tod's classical work, within the short compass of about two hundred pages. This storage are as far as possible narrated in Tod's own words and the usefoloess of the books is considerably beightened by a valueble map and a large number of illustrations. To those who have been in tooch with the kind of literature placed before the Indian student nothing has probably been more coteworthy, then the utter absence of books appealing to his sense of national greatness or glorifying the achievements of his forefathers Rajasthan comprises in its history all that is noble and chivalrous in the Indian character of past sees and it is eminently desirable that every student in India must be given the opportunity of study ing if

THE STORY OF END CHIED BY H A TERELS,
MA (GEORGS BELL & SONS) 104.

The patientic story of the sufferings of Enid is smong the most bouching portions of the Ralpile of the Rang. The parity and rittle of Fand which stends the most volcular test of Geraun has evokued intenses admiration from thousands of readers Mr Treblu's edition of the poem is very well adapted for the use of students in colleges and

schools as it has a reliable introduction and judicious notes at the end. It was a good dead of the editor's to pipe of the two as good dead found in the thought of the two and the story as found in the thought of the two and the story from its very course, and to apprent the statute principles involved in Tempson's deviations fixe the too runs!

Adnold B Brelish Literature Series Blackmore & Lorri Dooye and Kingsleys West ward Ho ((Edward Arnold) 1. 6d. each

It is possible to raise an objection of some scenarios to the presentation of masterpress in literature at the form of strulged editions. But the lumistions of class work reader it difficult to thak for carrying the young student through the source legisless and proper of the reliable under natice (till the metod propose of introducing two will known misterpress in a form stated to the special requirements of the lower classes

THE CHILDREN'S STORY HOOMS (MICHILLAN & CO): SCHOOL IN FAIRTLAND, 12, OLD GIREK TAIRS, 9d., OLD ENGUISE TAIRS, 6d. TLIRS FROM NORBELLAND, 6d.

Teacher of elementary classes will lesslif to the keen natures roosed in their boys by any fand of story telling. In addition to the satisfaction of a taste on predocurse in mill youth, the series of books under reases will serve the purpose of introducing the beginner to a world of rousine deals with to laterature. Comprising these reases of the proposed of the server of

THE FAIRT BOOK, BY THE AUTHOR OF 'JOHN HELITAK, GRETLEMAN' (MACHILLAN & Co)

The author of "John Halifax, Gentlemao," Mrs. Crak has enjoyed coosiderable reputation as a writer of books for children and this cheap reprint of her Fairy Book will serve to enhance it Some of the most well-known fairy-take have been included in the volume and the name of an the state of John Halifas, Gratienan, is greatered the state of John Halifas, Gratienan, is granteen been set up that the domain of man's imagination is becausing narrower and narrower, that are excisional glimpse of this world of fairies will serve as corrective influence. If the grow-up man does not always long for sights that would make him best forlorn, as Wordsworth did, the lancish limid of the boy at least finds immeasurable joy in the direction. There are few books better suited in direction. There are few books better suited from the purpose of simulating interest in the world of fairies, than this collection by Hrs., Craig.

BUSKEL SPEECHES OF AMERICA, EDITED BE A. J. F. COLLINS, (USTVARSHIT TUTORIAL PRESS) 1s. 6d,

There are few things in the History of English Literature that can rival Barke's Speeches on America in loftiness of political wisdom or in oratorical balance. The historian has regretted the neglect of Burke's principles by contemporary politicians in Rogland, but the literary value and broad humanity of his speeches have impressed themselves profoundly on the English-speaking world. This edition of his speeches on America will be found vary useful la colleges. The Introduction furnishes the reader with all the material necessary for a proper appreciation of the work, and the notes are judicious and comprehensive. We have un hesitation in recommending the volume as a suitable text-book for our Universities.

"A Complate Course in Blickhourd Dearing"
IN TRICKE, DT Mr. A. Subramanta Iver,
Assetset, and Deawing Marte, Government Tearning School, Saidafat, Price 12 Ac.

It is an excellent Teacher's Hand-book. It seems to be written on the same plan as the wellknown Angsburg's Drawing Books.

Stom every page of the book it is evident that the enthor has apared on punt to embrace in his book all the varieties of topics that are nearly laught in teaching Blackboard Drawing and what is more he has admirably succeeded in making the book relatable to Indian conditions. Perhaps it would have been well if the book had the subject of painting also treated in it. The language of the book is simple and suited to these for whom it is intended. The get-up of the book for whom it is intended. The get-up of the book for whom it is intended. The get-up of the book

is all that is desirable. It may be nohesitatingly said that the book supplies a great educational need of the day and therefore should be welcomed by all teachers who have to make Telugu the medium of instruction in Drawing.

Lessous in Irpant Managamant, by Florence Lassels Mather. (Thomas Nelson and Sons, London). 1s. 6d, pp. 112.

The bigh rate of death among infants which is almost everywhere the case ought to make all responsible men pauce and think a while as to the steps which can be derised to prevent it, if possible. It is now generally agreed that the high percentree of death among infants is due mostly to ignorance and carelesaness. A greater knowledge of mothercraft and infant management would go a great way in helping to bring about a reduction of this high death-rate. With this idea the Board of Education (England) in 1910 Issued a circular from its medical department (758) advising the teaching of infant management to all girls before leaving the elementary school. This little book is designed to meet the requirements of women who wish to be posted up with the necessary information about infant mensorsment. The book has something to say on all the important subjects of food, aleep, toilet, clothing, silments, &c., of children. The treatment is quite plain and simple. Though the instruction cannot we toto be followed in this country, still we feel that a study of the book will be of great use. We wish the book success in its laudable object.

EDUCATIONAL CLAREITS: FRUBEL'S CRIEF WRI-TINGS OF EDUCATION, EDITAD ET FLETCHER AND WELTON. (EDWARD ARNOLD, LORDON), DD. as. 246. 4s. 6d. net.

The conception of development, the introductions of which much some of the principal difference of which much some of the principal difference of the season of the eighteenth century and interest ages and that of the eighteenth century and interest the editors of the sectors of Educational Classon in which the present work appears. Fully continued that the present is the chief of the part and the parent of the fature, the editors upply the ideas of evolution and development to the educational problems, as and development to the containing the writings of the great educationis whose ideas have come to pravail in the adnational systems of all civilized countries of the

present day, are published. One of the famous in manes in this long list of great selectionists in that of Frobel. The kindergarten which is no essential feature of the present day Elementary School currently is traced to this great thinker. It is therefore natural that the series has a valume on Frobel's chief educational writings.

Two dominant notes in the work of Freebel are a passionate love of childhood and a lofty panthesam. The lucid and stimulating introduction by the translators traces to these two sources. all the prominent notions of Froebel's writings. His passionate love of children is due to his nwn neglected childhood, among other things His partheetic tendency is due to the philosophia environment of German idealism which just shen was running its course from Kant through Fighteand Schelling to Hegel This idealism had its effect on Freebel Fræbel's chief philosophical positions that " nature is visible spirit, and apint invisible nature, that matter is only an appearance of which the reslity is spirit and therefore cognite. with the individual soul, that all nature lives and manifests its life in an infinite productivity; that all creation is one with itself and with its Creater. in that all is spiritual, that the individual spirit craves to find extrafaction in the apprehension of this essential unity" look so closely similar to the dectrines of Hegel In the field of education. Frachel was early brought under the milnence of Postalozzi Many of the most velnable principles generally associated with the name of Froshel are found dimit indicated in Pertalcasi's writings Early life, German idealism and Pestelozze form the three chief sources from which flow the doctrines of Freshel

Insistence on self-education, bodily activity and kindergarten, are, among others, the primary contributions of Fimbel to the history of reincational thought. It is not possible within the short compass of a review to bring nut all the essential points of the Freebellian theory, yet one or two points need special meation. Frabel rightly concerted the purposive nature of mental life and laid due stress on the true innetion of education as being an evolving or a drawing out of the powers of man. It is the grasping of this notion that gives Frobel on enduring place in the history of thought There is no nee of storing one's round with facts True education is a self-education where one secathing a for one self as far as possible. Much corfus on prevails about Fra bel's ideas of discipling. Since Francel lays stress on play and 1 a mefulcess, it is some times thought that is does not situch much importance to the value of decipline. But the

fact is that, according to him, discipline is no end m steelf but only a means and a necessary means to the realisation of the divine element in man which is the true objective of education The function of discipline is to allow the divine spirit in man to come to perfection. Thus Frabel clearly grasps and appreciates the value of discipline as an instrument of training the will-But he is dead against that rash and reckless describing which enforces constraint and atrophies the free play of the will Freebel's ideas about the value and lemitations of discipline are beautifally summed up in the introduction which says "external constraint and punishment have their place, but their function is not that of mechanical pressure but that of toward inspiration" (p 20),

The translaters have done their work well. To them we owe a debt of gratuate for accelient tendeutsion and a fine readable English reason of Fronbels omef educational writings. We tope the book will be read by all who take an aterast in this ritsl problem of education.

LITERARY NOTES

Mesera Macmillen & Co have sened the newse of the following books which will be published thartly The Children's Classics with illustrations Primary

No 12 Senior No 55

The Governments of Europe by Prof Frederic

Ausim Ggg, Pb D 12/6 net.

Stadies in Literature by Prof. Frederick M.
Tisdel, Ph D 4/ net

Elementary Bulogy Plant, Animal, Homen, by J E Posbidy, AM, and A E Hunt, Ph B. 5/6 net.

The Todor Shakespeare added by W. A. Nodeco. Ph. D., and A. H. Thorndika Ph. D., 1/ nat per vol. 1 Julius Casser, edited by R. M. Lovatt, A. B.

The Merry Wives of Windsor, edited by F. P. Emery, A M The following books have been published during

The following books have been published during Fabruary

Development and Purposs Au Essay towards a Pa lessphy of Erclution, by Prof. L. T. Hobbouss, M. A. 10f net Au Latroduction to Metaphysics, by Prof. Heari

An interestication to hetaphysics, by Froi Lead-Bergson, translated by T. E. Hulme, 2/ oct. A Short distory of English Laterature, by Prof George Smutsbury: A Resease, stranged in fire

parts, 2f such
The Goldon Treasury of Australian Verse, edited
by Bartram Stevens, new edition, 5f nat.

Soams's Phoneur Mathod for Learning to Read : The Teapher's Manuel, Parts I and 11, each 2/6.

Mecmillen's Reformed Arithmetics, Girls Edu. Teacher's Book VI. 9d. Lectures on the American Civil War by J. P.

Rhodes LL, D. Litt. with mep, 6/ net

Mesara. Hodder and Stoughton have taken over cine of the most famous atories by the Baroness

The Gld Colonisl System 1666-1754, by G. L.

Boer, Pert I. The Establishment of the System. 1660-1688 in 2 vols. 17/ not.

Orczy including the Scarlet Pimpernel and are publishing them dering 1913 in their shilling not cloth library. All the books will have new cloth hinding and new coloured wrappers, which are being specially drawn by famona artista.

The Poets and the Poetry of the Ninetsenth century is a populse Encyclopardia of modern poetry, covering the area of Greater Britain and the limits of the nineteenth century, edited by Alfred H. Miles and Published by the wellkanno firm of Mesers. Garrie Hautledge & Sans, L'd. io 12 vols. Each volome is sold separately

While many excellent books for technical atodents are already on the market, it would eeem that there is a distinct need for a low priced serice specially adapted to the modern organization of the Technical School and the needs of poor etndeote. The Broadway Test Books of Technology edited by G. Sidney Yule sopplies this reel want The first lies of volumes is on these subjects :- Technical school organization and teaching a machine construction and Drawing t The Geometry of Building mostruction t first year at Building construction : Practicel mathematica ; mathematics, science and drawing for the Preliminary technical course ! The arience of Building and Building materials: Ap-plied Michanics: Electrical Engineering; Mechanics for Taxula Stadents. The volumes are all profusely fluoristed and published by Massra. George Routladge & Sms.

Of Rontledge's Indien Test Book series prepared to meet the requirements of the Indian University Examinations edited with preface and copious Esplanstory notes, cloth limp, each I is the fellowing are now ready and other volumes are soon to follow . Hawtherne's Tanglewood Teles, Lambes Teles from Shakespeare, The Harces,

A Tennyson Concordance will be published immediately by Mears Kegan Paul Teach Tethnase mediately by Mears Kegan Paul Teach Tethnase & Co. Ltd. This is a complete concordance to sie poetical and Dramatic Works of Alfred Lord Tenep-NO. Poet Loursais, by Arthur E Biker, 24 cat

Messin Coorge Handledge & Sons, Ind. and Morses. Kegen Paul Treach Tribener & Co. Ltd. asserted by referbet noder fret menedemes any mee

during the season 1913 many important works in Latersture. The following are some of them:--A Guide to the Best Fiction in English, new edition by Eurnest A Biker, MA., D. Litt. FLA. 21/ net-Children's play sod its piece in Education with an appendix on the Montessori method by Walter

Wood, 3id net. Roman Lafe and Manners under the Early Empire.

by Ludwig Fadiander, Vol. IV, transleted by Dr. A. B. Gangh, 10/.

How to write so Essay, by W T. Wabb. M A. sametims Professor of English Literature, Presidency College, Calcutta, 1/ net

Collected Poems by Austin Dobson, 9th edition. with a section of new poems with a photograph, 6/.

A Grammar of the Dravidien Langueges, by the lete Beshop Caldwell, an , LLD. New edition, by the Rev. J. L. Wyett, x a and T Remekrishne Pillai, 2 4. about 10/ ast.

The following are some of the forthcoming books of the University Tutoriel Press.

Preliminary English Course, by A. M. Walmaley, ¥.4

Shakospeare, Heary IV, Part I, by A. J. F. Collins,

Preliminary Geography, by E. G. Hodgkiam, Ma.

Algebre for Matriculation, by A. G. Cracknell, H 1, 3 M Prelimitory Arithmetic, by A. Barraclough, M.A.

Inoior Grometry, by A. G. Cracknell, MA. & to. Preliminary Chemistry, by H. W. Bansor, M ..

Grammar and Thinks 2, a Study of the Working Conceptions to System, by Alfred Daright She field t convincing menner, Mr. Sheff-14 traces in this book the relation between the form of expression and the thought. The greater part of the bock is descreed, es the sub-title would indicate, lo a study of the working conceptions to bijutar. The value of each of our grammstical classifications and the reaction between the forms recognised by grammar and the varied thought conceptions are presented in a povel and ingentious manner. The "dry lances" of groups mar are so deried that even the casual record freis that the field has been tiliamicated. The book will be imperion to the teacher of Linglish.

Falempoinners Speaking, by Paul M. Pearson and Philip M. Hicks, New York: Hinds, Noble and Disredge, 1912 Part | trotains eight chapters ca the preparatum and delienty of speeches, l'arall to deroud to examples of good speeches for study. The is a very mer scaling bak.

Malera Burraces Marbida by William II. Teller Heary E. Brewn Chogogui Band, McNally & Co. This is an exceedingly valuable bandbook. Ex amples of all the business forms natally required are included together with much practical informs tion and many avarcises for practice.

Heroes of the Nations (Pirman, & no.) will come so a revealant to ordinary readers. Of the Sense, "Roger of Skelly," by Professor Courts, of the model of the National Sense of Skelly, "by Professor Courts, of the national Sense of the National Sense of Se

The Gharles Engines Originals by Edwin Pugh (Fonlis 6s) This is a book that all Dickerasens should road. It is parily expository and partly critical and is copiously illustrated. Mr Pugh does not blusk that Dickins bad much sense of himonor, in spite of all the mirth that he has caused. Bis sense of himonor played but little parties his prieste life, bo says.

Morse and Manner of John Rusine, by Sir E. T. Good (a Millen 2st each Than its spheaded volume, and with its twenty-sight colour preferred from original drawings and sixteen in black and white by Miss E. M. B. Warren, it makes a very reliable guide book far the sure clear plageam to reliable plageam book far the sure clear plageam to be continent of Borope. The book takes as pleasantly to Oxford, in the Lake District to Scotland to France. Smitzerland, and Italy and alies to be challed that and with full knowledge of the homes

Payana (stituted and Remissional, by Hallans Sharp, electect and arrenged by Mer William Sharp (Hainaman, Sa. net) is fall of examples of enquasts and discerning emission and its a volume to be read not core only but meny times. William Sharp potts of moder poets, but some of the most press of the most press of the state of the most potts of moders poets, but some of the most dram like delacaty of touch, multi note the heart like dew. The energy and entirestim so has book possens, to a certain extend the statement which we have been considered in the statement of the statement

The Teaching of Mathematics in the United King dom. The following set of papers published by His Majesty's Stationery Office, discuss matters relating to Secondary, Technical and University teaching to sure case the writer has a special and intimate knowledge of the sobject with which be deals.

The Teaching of Algebra in Schools, by S Barnard 144, Escreach and Advanced Study as a Training for Mathematical Teachers, by G H. Byne 144, The Teaching of Mathematica in Everaging Cachendral Control of Contr

The following four books published recently are typical at the modern Trendencies in History Teaching A History of Europs, by A J Granti Loog mans 7s 6d, set Francs, by C Hradlem A Black 7s 6d not. The Last Lenlary in Europh by C E M Hawkeaverth, Arnold 5s net. Australians, by A W Tibly, Consisting, 6s net

The following are some of the recent books on Theory and Hustery of Education

aceres and asserted Sautestice.

A Cyclosyfia of Education, edited by Limburgh Val. III, 662 pp. (Macmilles) 211 and 101 Min. Val. III, 662 pp. (Macmilles) 211 and 101 Min. Val. III, 662 pp. (Macmilles) 211 and 101 Min. Val. III, 662 pp. (Macmilles) 211 and 101 Min. Val. III, 10

a First Book of Obscautry by R Barrett and T P Name A O Black, It 8d Dr Name splans on the prefere their this book is based on a nobemed mattered with the many by busself when Sciencematter et the William Elius School The schools of the school of the school of the school of the sathers give a green deal in Information which might be educed by the perfect teacher from the perfect chief.

When Kings Bods to Delh, by Gabrielle Feature, with illustration. This book is an attempt to treat the bittory of Delbi as the action had already treated the bittory of some of the States of Estiputane to a former book. This book is intended only for the scenaria reader or the traveller in Iudia William Blackwood & Sam. 72 65 nm.

An Outline Hustery of English Literature, by W. H. Hadson; Bell & Sons, The enther same at

giving a clear and systematic account not of the schlevements of successive great writers merely, but of neticeal changes and development.

An Elementary Course of Magnetism and Electricity, by C. H. Draper, BA, DSc. (Blackie). A separate issue of Section VII of the sethor's Course of Physics, Practical and Theoretical.

A Course of Physics, Practical and Theoretical, by C. H. Draper, BA., D Sc. (Blackie). Consists mainly of instructions for exercises istended to he performed by beginners.

The Historical Record of London University. A five shilling book called "The Historical Record of the University of Landon" has been published. It contains a history of the University, the texte of the verious charters and of the University of London Act, the tests of University College and King's College Act, lists of former Fellows and Officers, full particulars of Trusts and Beosfactions and lists of living Graduates and of Eshibitioners. Scholars, Prize-winners, and Hosours Graduates from the funndation of the University.

Mesers. Hodder and Stoughton ennounce the first list of Charles Garvice's seven peroy novels They will be issued bandsomely hound in cloth with magolificant coloured wrappers picturing a enique series of Carvico Heroines by well known Artists. The very heat Carrice novels will be included in this series. Mr. Charles Garrice's readers ore numbered by the million.

SCHOOL AND COLLEGE SPORTING NEWS.

M. C. Athletic Association. Senior Cricket Tournament, Final.

Wester v. Excineening.

The above teams met is the final of this tournament. Though none of the matches in the preliminary rounds of this toernament was by any means well contested, it was thought that the finel et least would produce a keen contest. However, as it turned out, this match proved to be even more disappointing than the previous matches, as the Regiocers, who were sety fucly in getting ioto the final without actually taking part le any of the previous matches, gave on this match, at the end of two days' play, aridently finding themselves in a nopolessly weak positionin spite of the above draw-backs, this tournsment after all had not been without any interest, for Vencataramenjalu, Baliab, and Ramaserami,

the three some of the 1ste Mr. Buchi Babn Naidu. alf of whom were playing for the Wesley, covered themselves with glory by doing some remarkshie things. To start with Balush distinguished himself by scoring 113 ruos in the apening innings of this touresment against the Medicoes. Not contest with it as it were he knocked up against the Christians se even bigger score, asmely 141 rues in this match, Ramaswami, the youngest of the lot, put ap 183 runs, the higgest individual score made by se ledian here. That a youngster of his age, who is still ie his tees, should have beaten all previous records is undonbiedly very creditable. We congratulate the youngster no his schiering this noique distinction. Vesestaramenjulu, the oldest of the three of whom great things were espected is hatting, though he issled to justify the high as pectations that were entertained of him, made up for it in a may by bewling exceedingly well in all their ignings, besides bringing shout several remarkable catches in the slips. He sitogether begged 29 wishels nut of the 49 that fell to the credit of the Wesley howlers.

THE MADRIE C. A. ASSOCIATION.

The ennual sports of the Mudras Collegiste Athletic Association was held on the grounds of the South Indien Athletic Association in the People's Park.

Considering the large number of educational institutions in the city the gathering of atudents was not quite so large as that seen on previous occasions when the meetings were held on the grounds of the Engiocering College. This was presumably due to the fact that admission into the grounds even for bone fide students wesom payment. The attendance of the general public also was not up to the everage of the previous years.

The programme of sports was as usual the same as in previous years. The Rev. H. Asherelt, Capt. E. W. Bradfield, Mr. A. Guthrie, Mr. W. C. Old, Mr. J. L. Simossen and Mr. S. Narsyana freegur ected, while Mr. C. fa Guffith was the Time keeper and Mr. W. G. Venthem, Starter,

No less than eleven of the High Schools and Colleges elected to send in competitors for the sports, and preminent among those who were not represented were the Veterinary College, the Triplicane Hisdu High School and the Pennathur Sub-amaziyam iligh School, There were a large number of cutries for the various events ranging from 7 to 5, and it was therefore found necessary to sun three in hests on the day previous,

From the last I gethered that the men he bea made by thousands have spread out not only throughout this Presidency but through the length and breadth of India Not a day he passed without e few of his pupils visiting him as though performing a pilgrimage to the secred abrine of his vestdence in Mayavaram Ou auch occessour, when her students met him, he, by his ferrour and enineet preaching, created in a few minutes such an atmos phere of moral elevation that his etndente soon forgot themselves believed this corth on Eden, saw an Augel preaching, pouring out his beart for the betterment of man His very contact, the intellectool treat the students enjoyed the marvellous infloence be exercised over them, the readstess with which he poured forth his quotetions, all these made us shrink within ourselves for the littleness of one mind

In 1874 when he took his B A. Degree and when he was appointed a teacher to the Fourth class in the Kumbskonam College under the vary eye of his loving patron and meater Mr T Gopale Row. I had the peculier privilege so a student and monitor of that class to sit at his feet and ambibe knowledge The impression be produced in that Impressionable age was such that his students soon began to regord him se on Angel co corth with a special mission. How he taught how soon he forgut himself and made his students forget, how nectorlike his ideas flowed, how his studente dronk delight at the founters head of wiedom, bow he held ne spell-bound as in a trance, how mellifinopely his atterence flowed, how metemorphored we stood before him, how we recented the hour bell ee an unwelcome intruder and interrupter, these and these were only known to those fortunate few who est under his megical ir finenca. But alse! these have become things of the past, matter of history. To the lest day of his life till the very breath left his postrils be continued to be a teacher, if not to the larger world outside, at least to his children end the children of his children. In his old and declining aga with a number of physical insla-dies how he was able to study afresh se en erdent stodeut, the asered literature of the East, how he ransacked the such treasures locked up in them with what case and flow he quoted Sauskrit alokas after alokae how be mestered the obstruse doctrines of the Advaits philosophy, how masterly he discussed with learned Pundite, these ere e marvel to me.

"He learned as though ha were to hive for ever, And hved as though he were to due to morrow." Our only consolation now is that death has cut the saint down hot he eccord keep him down. We have yet a painful duty to perform, a duty mevertheless, to covery to the becared keep him he bedder have a maint run access the deep less his children have anotamed and with a must real in paces — Annee and offeners. May he must real in paces — Annee and

MRRy S Remassing Iyer Avi then read in number of pathetic starzes composed in Tamil in memory of the decessed

MRBy K Seebn Aiyer Avl. in copporting the resolution, paid a tribute to bie old teacher in a very touching speech.

The fallowing resolution meansumously pased, "That has Secondary School Tescher's Association, Mayaveram, learns with intense regret the great sed arrapratible load the teaching, profit of M.R.P. S. Krahassamy Ijarr Ari, the vetera educationate and alst Baldesauer of the Toro Black School, Kambakonsom, and couvers its grantly than the season of the country of the

Tomkur District Teachers' Association-Under the Chairmenship of Mr. T. Vigreamer 194, B. 1, Ededmeter of the A. V. School Tankir, so interesting and convincing paper on the "Neel of Teachers' Association," was read recently by Mr. P. N. Venkata, Run, English Teacher of the Empress Girls' School, Tomkur

A midst the rejoicings of the 40 teachers seambled at the time, the Association tank the name, "The District Teachers' Association"

The chief object being to serve the country, is, to help the students to intro out the best and most needed and dutiful embeds when they grow to min hood, it is proposed that any one interested in education may become members, that members should pay a monthly tee of an eause each

As a sective com mitte of 0 members, and the following office between term eshecked, Fetroe M Strunturess Rea, Eag a., Impector of Schools, Mayore Gurles President II. N. Verbetarmenurys Em Et A. Dripte Interester of Schools, Tambur Det, Secretary III. T. Versetaris Iransatur and Teacher and Comment of the Comment of th

Hostels -The Madras Government do not approve the proposals submitted by the Director of Public Instruction Madras, with regard to the designing of the hostels and wardens' quarters to be constructed to connection with the Government Training Schools for Masters Two new and more economical designs have since been prepared by the Chief Engineer under instructions from Government for a students' diving ball. The accommodation prowided to there plans chould estudy all reasonable requirements and the Director of Public Instruction well be requested to adopt them in the case of all proposals for the construction of hostris in counter tson with Government Training Schools for Masters Having regard to the importance of making hostel residence obligatory on the atudenta ouder training and in coundaration of the inability of most students in the elementary training schools to pay the real levisble ie eccordance with Public Works Department Code, the Government are pleased to exemps such students from any lisbility to rent dering their occupation of hostels provided for their accommodation.

Elementary Schools -The Government of Madres have sanctioned the payment of further subsidies emonating to Rs. 38,377 to the following District Boards towards the cost of maintenance of the Elementary Schools newly opened :- Arcot (North), Rs. 500; Arcot (Scoth), Rs. 4,500; Bellary, Rs. 1,500; Cansre (South), Rs. 3,000; Chingleput, Rs. 1,100; Chittoor, Rs. 800; Caddapab, Rs. 1,700; Godavri, Rs. 1200; Cuccaspac, Rs. 1, 1001 Godavri, Rs. 1, 200; Kistna, Rs. 3, 177; Kernod. Rs. 2, 200; Madura, Rs. 1, 600; Nellore, Rs. 3, 300; Ramnad, Rs. 1, 200; Sslem, Rs. 700; Tenjore, Rs. 2, 660; Thnorelly, Rs. 500; Trichicopoly, Rs. 3, 300; Vingspatam, Rs. 5, 600.

Education of Factory Children - Interesting light is thrown upon the cumber of children employed in factories of this Presidency by Government Order which has recently been published regarding their educatioe. According to letest published reports there were 201 factorise in this province with se average daily ettendence of 4.725 children. Of these factories very few do enything for the children employed thereis. The two notable exceptions ere the Careatio and Backingham Mills in this city which on the Sist March last, had respectively 277 and 274 pupile on the rolle of their schools. Ont of the total of 4,725 children, 3,059 ero omployed le factories in places where, to the opiciou of Sir A. G. Bourger, Director of Pablic Instruction, provision for their education saists or measures to that effect seem practical At present only 602 children raceive education at these places. Sir A. G. Bouroe therefore proposes and Government have accepted his proposal, that a number of halftimer's schools he started is places where there are factories employing a considerable number of obildree and where managars promise their cooperation in accurring the education of children. These schools, to the comber of five, will be started in the following places, one at Ellore, Madora and Talicoria and two at Coimbatore, affecting 1,532 children. These proposals only effect jets and cotton factories, and it is recognised that there are certain other industries, for example, rice mille which employ a considerable number of children so whose baball achools might be opened, if the icotative measures proposed prove successful.

The Government High School for Indian Girls. Vizagepalam - The opening ceremony of the Government High School for Indian Girls. Visagepetern, wes colobrated with much solet on the 4th natant in the school premises.

The proceedings began at 5-10 r.u. with the opening remarks of Mrs. Cecil Rhenins, the Inspectress of Girls' Schools, Northern Circle.

At the conclusion of her speech ahe read extracts of letters from various gentlemen showing their sympathy with the movement.

Among the apeakers were Mr. P. T. Srinives Alyangar, Principal of the Mrs A. V. N. College, Vizegapatem, and Mr. V V. Sivavadhani, the Sobordiaste Judge of the town.

Dering the intervals verses and alokas composed for the occasion were read out by the Pandits of the school and the Music Instructor engaged the aedience by playing the Vine.

A Pupil Teachers' Association .- The Tenth

Anniversary Meeting of the Pupil Teachers' Association connected with the Government Training School, Tanjore, was held with Mr. Hart, MA., Inspector of Schools for the Range, in the chair, The Secretary's report showed the useful work done at the several meetings. A lecture on the wellknown Tamil poes Kambao and his works was delivered by Mr U Sivagnanam Pillal ie Temil. The Chairman congratulated the Association is its steady solid work and anggested the desirability of all Government schools and colleges providing for the distribution of prizes to successful pupils as was does in years gons by. In the coerse of his remarks he impressed on teachers the importance of incuicating good principles in the lessons taught during the course of their delly work in school Mr. Hart referred approciatively to the King Emperor speech on adocation sed the recent resolution of the Government of India on education and the prosperts opened out for teachers. The speech was eminently fitted to the Association and Mr. Veradaraja lyengar, Head Master, thanked Mr. Hart for his triendly connect.

Educational Exhibition.—At the Tindivsesm Educational Exhibition the prizes were annonneed by the Sub Assistant Inspector, Mr. Satur kopacharier, a fair number of medals and e larger con of certificates of excellence being awarded to the deserving owners of the exhibits. Mr. Gopalewami lyengar, the Sub-Collector of the division, gave a abort and interesting speech.

Mr. T. V. Sivakumara Sastrier came neat and in e happy speech, summed up the various excellences of the eshibition. He specially thanked the flev. W. T. Scudder and Mr. Satakopachariar for the great trouble they had both taken in the organigation of the exhibition; and he hoped their the axhibition would brooms on annual metitotion in Tindiranam, promising to do his best towards realising the same, He also thanked Mr. Gopal-awamt Ipenger for his valuable suggestion of vacation classes to Elementary School Teachers, The Bar. W. T. Soedder gava his hearty thanks to the President, the Sub-Assistant Inspector, the and that a Mahomedan gentleman has expressed his readiness to make a donation of 10 lakes for founding a college if the scheme is matured

It is proposed to extend the Currimbbas Ebrahim Mahomedan School, the foundation atons of which was laid by H E the Governor in Nosember last

Education Grants -- Out of the Borbar grant of Rs 50 lakes for popular education, the Bombay Presidency was given Rs 650 000 distributed as follows emong different objects -Ra 436000 for the elementary education of boys, Rs 75 000 for the elementary education of boys, Rs 75 000 for the education of girls, Rs 48,000 for hostels, Rs. 51 000 for technical and industrial education, and Rs 40 000 for the education of Europeana and Anglo-Indiana Of these amounts Ra 1.50 000 has been gisee to Monicipalities for their pri mary schools, Re 1,50 000 has been utilised for increasing the output of trained teachers from the Training Colleges at Poons Dhules Dharwar, Ahmedabad and Hyderabad, Ba 25 000 for giving increased pay to teachers in vernscribe echaple, and Rs 1,11,000 for other objects in connection with primary aducation Of trained teachers the institutions named above will henceforth tarn one 146 mora per annum than they here done till now A sam of Rs 20 934 has been sanotioned for the entertainment of 14 Additional Assistant Deputy Inspectors of Schools The sum of Re 75,000 assigned for tha education of girls has been equally distributed among the four divisions of the Presidency In Sindh, more than half of the allotment will be utilized in increasing the grants to sided girls schools from one third to one helf of their gross annual expenditure, and the balanca will be applied chiefly to the development of the Training Onlings for Women at Hyderabad In the case of the Southern Division the allotment will be unissed mainly for the d-velopment of the Dharwar Trainit g Oollega for Women Ton manual training classes in connection with the Training Colleges for Men at Poora, Ahmedabad, Dharwer and Hyderabed will get Ra 8000 for buildings and equipment, Re 6,5000 will be given to the Victoria Jubilee Technical Iretitate Bombey, for machinery and apparatus; By 5,000 for osl et gine, wood working machine, oic. at the Victorie Jabilee Technical Institute, Suakur, and Ra 8,500 to the College of Engineering, Poone, for equipment, formiture and books for the library A oum of Rs 15 000 bas been reversed for the College of Commerce.

Commercial Cultige — A movement has been set on foot to raus a momeral to Lord Systehus me Bombay. A rubscription list is bring rest cound among the leading numbers of the Indian commonity Series have primated their support to the members of the Indian commonity Series have primated their support to the methods and Indian Indian

and two monthly scholerships of Re 20 each in all Re 32,000, he have not been supported by the agent Re 18 1000, Masterajah of Bharanagar Ra 10 000, 70s Rej Sahal Ghengariah of Bharanagar Ra 10 000, 70s Rej Sahal Ra 1000, Mesterajah of Bharanagar Ra 1000, Mesterajah of Ra 1000, Hengariah of Ra 1000, Sir Canabboy Machaela Ra 1000, R

CALCUTTA

A Rascarch Scholarship —The following graduate of the Galcotta Dayrershy is granted a research acholarship of Rs 100 s month for one year, with effect from the date on which he reports the mild fact from the date on he will carry on his work.

Name.-Surendra Moben Genguli

Subject to which research will be carried on Pure Mathemetics, with special reference to the ambject of Projective Geometry

Place of work -Tha Celcutte University Inbrary.

The Directorship of Public Instruction—The "Times" understands that Mr Horosil of the Board of Education, has been appointed Director of Education, Beccal.

A New Manum at Dacca —The Bongal Goresteen has ween da Essolution opproving the schoem of withbilding a measure at Dacca for objects of heterogical and surjectories in interest. A large schoem to the Secretariat at Dacca has been at Dacca for the proper to the Secretariat at Dacca has been to the Bongal Caramistes has been monumed for the purpose of making detailed arrangements. It will probably found desarrable hereafter to connect the measure seems way with tha Dacca University but measure with the Dacca University but measure with the Bongal Caramistes and which are already been collected and which are already because which the satisfactions of a measure will assess whether the satisfactions of a measure will assess whether the satisfactions of a measure will assess whether the satisfactions of the satisfactions are already produced valuable results.

ALLAHABAD

Proposed Memorial.—An inducatial committed is bring formed to commemorate the ten years' arrived rendered to the Central Hindu College and Indian education by Mr. G S Arendale, the rating Honorary Principal

Allahabad Christian College Literary Contest .-The annual literary contest of the first and third year classes of the Arthur Ewing Christian College was held in the West Hall on the 7th Merch. The officiating Principal was in the chair. This year the programme consisted only of drolemation exercises. The Rev Mr. Smith; Mrs. Ewing and Prof. Thompson acted as judges. There was a large gathering of students. The principal speakers were Messes. John Rawat Sushii Mukerjee, J. N Bannerji, Frenk Riwat, and Banjamin The subjects chosen were 'The Greatness of Lincoln, 'Vision of War,' Speech of Spartacus to the Envoys of Rome'. 'The South African Question', and 'Toussaint L. Onverture.' Mr. John Bawat was swerded the first prize and his speech was highly appreciated. Mr. J. N. Bannerje got the second prize. Mr. Benismin, though he was defrated, showed great preparation.

PUNJAB.

Primary Education in Sirmur.—In the calebration of his installation, the Raja of Sirmur has announced emong other concessions, free primary education in State Schools.

Maharaja of Patiala's Charity.—His Highness the Maharaja Babador of Patisle hes, on the birth of the Tikka Bahib, been pleased to make donations to the following institutions in the Ponjab:—

			Ra.
Khales School, Gujrenwale			10,000
Girl School, Keiren	•••	***	5,00
Girl School, Bhasaur	•••	***	5,000
Khales School, Pindi Ghep	***	***	5,000
Khales Ocphanage, Amritear	**	***	2,000
High School, Fireke	++1	•••	2,000
High School, Ambala	***	***	3.000
Dharamahala, Hydrrebad. Sim	ih.	***	2,000
Middle School, Sukhe	***	***	1,000
Sikh Orphanage, Garjhak	***	***	1,000
Bikh Sewak Jatha, Maler Kotl		***	1,000
Temperence Society. Amritan	·	***	500
Dharamahala Sant Bhei Siam	Singh	***	800
Orphanage, Patials	***	***	500
Sonak Jatha, Paliala	***	•••	300
	Total .	•••	28,500

MYSORE.

Mindergorten System—The Gererament of Mysore recognising that solitable arrougaments in Mysore for the education of children below six years of age on the modal of the kindercesten Francisco and Company of the Compan

sanctioned the proposal of the President of the Municipal Gousell, Bangalore City, tentatively for a period of three years, but having regard to the incrementance that at present, the institution is required for the convenience mainly of a particular class, via. the children of rich parent, they direct that at feat half the cost he mrt from free, the balance slowe being borns by the Monicipal founds,

School Buildings -- Provision had been made in the Mreore State Funds Badget of a lake of rapees and of half a lake in the Village School Funds Budget, for school buildings. The Inspectors G-peral of Education had arranged with the Deputy Commissioners of Districts for suitable sites, and with the Chief Er gineer for the countraction of the be ldir as simultaneously in all the districts, so that the full amount of the two grants might be ptilized before the close of the correct official year. Ton has of buildings proposed to be constructed have now been approved. The Comptroller has been requested to arrange for the transfer of necessary funds from the provisions for ylliage school build-ings in the current year's Education State Fund end Village School Fund Endgete to the Public Works Budget on requisitions from the Inspector-General of Education from time to time.

The C. E. Zenna Mission School.—There we once a large attendence of hales, both Eoglids and Muhammadae, es the Church of England Zenna Mission School, on the occasion of the ennatl distribution of prince. Mer. R. H. Campbell presided, and kindly axes away the prince, After a bytan end prayer, the little gith and infants in the A class weather of the control of the

The prises consisted of dolls, wark-boxes, bage, etc, which were the gitts of friends in England, and represented much loving sympathy. The expenses of the gathering itself were defrayed by friends in Mysare.

TRAVANCORE.

Retirement of a veleran professor.—It is neckertood that Mr. Maurier F. La Bouchardiers will
retire from the Professorable of English in
E.H. the Maderajaba College within a faw weeks.
The Educational Service will issue a good and
pagelar Professor by the settlement. In has taid a
in Textancors throughout which he has won the
good regard and granice active or or many hondreds
of attendants. Mr. La Bouchardiere, it is attact, in
tends to actide down in Bengalows after he tatends to actide down in Bengalows after he
feasor therefore, will be practically lost to the conterpwhere he spend the best part of this like and for

which he laboured sod totled with a willing beart, with a president devotice to daily sed with a partnotum sod loyalty which he has near hartness and loyalty which he has near hartness and an analog of Maurec La Bouchardlers will for all time, be treasured and vecerated in the house of many a Transportan

Teachers' Examination—It is resided that the practical examination for Teachers' Normal Certificates will be held on Monday, the 26 h May 1913 as Trivandrom for all grades and at Kottayum for Englash Middle School Lower Primary Vernacular and Primary Normal Certificates

Education in Travacers — Dering the enterprincip administration of Mr. P. Eurspeans Conting present Diwer. Travacers has made motable stream in the educational Edd, the polary new stream with the education Edd, the polary new education in the education of extension with education of the education of the education of the education of the education without a the run is insurance in major education without a the run is insurance in major education of the education of the insurance in major education of the education of present the education of the education of the education of first primary reduction together with the account of the education of the education of the education of second the education of the education of the education of second the great blessing of reducation of the education of the second the education of the education of the education of the second the education of the educat

COCHIN

A Mopla School —The Government recently sanctoned accepts aboutly of Rs 50 000 to the Cochin Manuspality for expenditors on the construction and equipment of elementary school besidings. The Convoil at emesting held recently decided to construct a pacce Mopla School at Calrette.

Scholerships —There are at present realist. State scholerships being greated by the Gorbun Barbar. In addition to the new scholership for teasuring to addition to the new scholership for teasuring to a state of the scholership for teasuring to the second of the scholership for Barbar have announced that following the sawarded in 1689 — (1 Our Scholership following the protection of returns of the Agricultural scholer from Extense of returns of the Agricultural scholer from Extense of returns of the Agricultural scholer from Extense of Scholership for a Irmal condictate tensible in Bulletship for a Irmal condictate through in Bulletship (1 Our Scholership for a Irmal condictate through in Bulletship (1 Our Scholership for a Irmal condictate through the Scholership for a Irmal condictate through the Scholership (1 Our Scholership for a Irmal condictate through considerated with page 2014).

Foreign Potes.

GREAT BRITAIN

Congress of Historical Stadies —The Government will gare a bumpers at the Hold Credi, London as April 3 to welcome the delegates siteading the Leterantonial Googress of Historical Stodies, of whate the King is Patron and Mr. Direys the President and the Company of the Company

Law Library for Indian Students -It was announced on May 6 last, that arrangements were being made by the Secretary of State for Indie in Conneil to form . Law Labrary at 21, Cromwell Boad, for the use of ludien students the schema baving oraganeted with a spontaneous offer from Sir Thomas Raleigh, a Member of the India Coccil, to make a gifs of a part of his collection of law books. The presentation comprised some 750 volumes of English Law Reports, and at was at first proposed that the library should be nemed after the generous doner; but in deference to the wishes of Sir Thomas Raleigh himself it so to be known simply of The Law Library. The Secretary of State medea grout for Library. The Secretary of Siste mede a great of the porchase of use works, and milb the sum 100 teas or reference books were bought, while to addi-tion some 400 rolomes of Indian Low Reports have been transferred from the Iodia Office library bring-ing sp the total to 1,200 volomes. Forther addi-tions will be used from time to time in order. On give comprehensiveness to the library The formal opening extending took place on February 13 noder the chairmanish of Mr Mallet, the Secretary for Indian students. In addition to a large number of Indians the company included Sir Thomas Esleigh, Mr T W Arnold, Mr C E Buckland (Chairman of the Menaganing Committee of the Library, Dr F W. Thomas Professor Neill and Miss Beck. With raference to desires which have been expraised that the scope of the library should embrace non legal departments of study, Mr Mallet said that the Commettee falt it was desirable to furnish a law labrary thoroughly and well with the funds at disposal, rather than to restrict its merfulness by obtaining ot the stage books on other branches of study But if generous donors presented books on other aubjects these contributions would be gladly walcomed Ser Thomas Raleigh hoord that as time went on the Indian centre would be not only of a domestic but of a collegists character. As the majority of young Indians in London were law students, their interests would be best served by a library of this kind He laid emphasis on the knowledga required by a practising barrister being superior to and distinct from the knowledge needed for passing law examinations. It has been arranged to hold moots, or mock trisls, periodically, the arguments in he put by the students, under the presidency of retired High Conti Judges

Distressed Indian Students Aid Committee
The Distressed Indian Students' Aid Committee in
the report for 1312 state that 4s applications or
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were make in 12 cases, non-enabling repairances
do £036, but nitmainly some of the debts will be
wipped off as irrecoverable. A commissions of
acriptions is required to most such losses and extend
the Committees usefulness

Educational Requirements of London—Soma idea of the methods by which provides is under of the methods by which provides in the case of the method with the contract of London and Education and Education and Education and Computer both under the heads of manufactorial Commutes both under the heads of manufactorial March 1914. The General Parchast of March 1914 and Commutes both water the financial Sub-Committee heads of the Committee of the Commi

£269 674 These figures, however, molede the expenditure of other Committees on education hat se the calemetes of the other Committees on educating have not yet been presented it is not possible in give complete figures for an estimate for 1913-14 I he total of the estimates of the Education Committee for the year 1913 14 are as compared with the total of those estimates of 1912 13 to as follows -Elementary Ldnost on £4 100,620 Higher Education £934,750 total £5 044 570 Among the emonets to he voted are -Books apparetus and stationery. £146 950, school keepers and cleaning £158 260, rates and taxes £215 760 children a meals, £84 450 medical inspection and treatment, £28 005, salaries of teachers £2 556 205, instruction in special sub pects, £117 225 secondary schools £213,025, scholerships, £137 690, training of teachers, £97,185, polytechnics and technical institutes £214 890, Loncoil evening schools, £121 865, special schools for blit d deaf defective, and epileptio children, £131330 and industrial and reformatory schools. £82 50) Commenting on the estimetra, the General Perposes Sub Committee state they the total estimated expenditure of the Liementary Fdecetion Sub Committee empunts to £2 807 095 an increase of £49,890 in respect of teachers salaries On higher aducation there is a net increase of £20 555. The total smooth provided in the draft capital estimates for the year is £1 600,000, of which £565,000 is required for clamentary education purposes, 2100 000 for special and industrial achools, and £215 000 for higher edu-

THE OXFORD GEOGRAPHIES:

Vol. III

THE SENIOR GEOGRAPHY

BT

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AKD

F. D. HERBERTSON, BA (LOND)

Second Edition.

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Chapter VIII lays down the methods of

The Dacca University Scheme These methods are devised with an eye to economy The training of students is to

and efficiency The training of students is to be effected by means of lectures, totorial instruction, laboratory and seminar work and supervised private study. For purposes of economy the laboratory is to be a central one and the lecturing in Science is to be by University Professore and a free use to be made of the oter collegiste system In Arte however, much of the work in the Januar or Intermediate stage in which the number of students would be large, the huck of the work to to he done separately by each college, but in the sector classes the lectures are to ha inter collegists. This arrangement is calculated to enable the Professors and their Assistants to specialisa in particular portions of the courses. In Madras where we have an such central University Isherstory and where the different Colleges seem to have conflicting interests, all this seems impossible and much of the labour of the Professore and their Assistants goes to waste by one and all of them doing the same kind of work in the different Colleges The largeness of the number of students in some of the Arts selects such as Logiush, may be a bar to the adoption of this method But for most of the subjects ench as History and I conomice, Philosophy, and classical and vernscolar languages, tha various Colleges may join forces at least in the Honours classes. This is all the more desirable in Science teaching, and it is a question well worth the serious consideration of both the University and Government. Some of the Madras Colleges are unable to seek affiliation in Science applects because they cannot afford to equip an adequate laboratory, while the Presidency and other ncher Colleges are wasting their resources in muintaining each ite own laboratories-resources which might well be utilized in strengthening their professorial etaffs and contributing to the payment of first-rate Professore who might be induced to come down from Enrope for money ac well as for love A central laboratory for the city of Medres and a few common Professors will not interfere with the distinctive character of each College where the halk of the instruction will continue to be given A similar course may be followed in all centres where there are more than one sfiltsted college Another matter which calls for the notice of

the Madras Collegee is the number of students in each class The strength of the Intermediate classes in the more flourishing of these colleges rurely falls below eighty, while that of the BA classes in English ie double that number The Committee is of npinion, and very rightly too, that as the students in the Intermediate classes require a simpler sod more explanatory form of matruotion involving some degree of individual attention those classes should not contain more than 40 students Agein, in Medres, owing to the largeness of the classes, tetorial work caunot be satisfactorily done, and both the professor and the inter do the same kind of work-each lecturing on different anbiects and the latter doing very little of real interest work. A total should have small classes to deal with, but the Professor can assemble all the classes of the same year for his lectures. If totorial work se to be estudactorsly and efficiently done the number of tntors must be considerably increased and the large classes divided into sections, each section herog given to the charge of a separate tutor. The Committee propose a

very considerable measure of totorial assistsuce to the Professor so that each tutor may oot have more than 20 students to attend to · io the Pass B.A. classes, and only two io the Honours classes in their special subjects. The question of the proportion of the cumber of teachers to the number of pupils is one which deserves more than a passing notice. From the latest statistics svailable (1912) we find that the proportion of Professors of all racks (including Paudits) to stodents in the Colleges affiliated to the Madraa University is 1 to 13-2. At Oxford it is said to he 1 to 7.2 and in Mauchester 1 to 64. The Pachaiyappa's College, the Madras Christian College and the S.P.G. College in Trichinopoly are the worst offseders in this respect, the proportion io them heing I to 25-3, 1 to 18-3 and 1 to 24-4, respectively. The Universities' Commission of 1902 recommended an average of one teacher to 15 popils. We hope the University Periodical Iospection Commission will take this into coosideration at the earliest opporteelty sod compel these Colleges either to redoce the strength of their classes or to add considerably to their staff.

Unlike in the Madras Univarsity ample provision is made for post-graduate study and research by the institution of the M.A. List, D. and D.Sc. degrees, and facilities are provided for it by mesus of seminars, special somious for it by mesus of seminars, special somious mand the granting of research acholar moscoum and the granting of research acholar than the seminars. The encouragement, if it can be so ships. The encouragement, if it can be so ships. The encouragement, if it can be so ships that the Madras University has provided for post-graduate study can bear no comparison with what is proposed in the Dacca University by the provisions for the granting of the higher degrees and the other measures referred to.

Chapter IX is devoted to the methods of examinations and topics relating thereto. The ayatem of estimating the value of answers to question papers is not to be hy essigning marka to the different questions except to the Intermediate examination, but by the general impression left on the examiner after reading through the whole paper. The questions should be simple and straightforward, directed to discovering what the student knows rather than to test his ingannity. A colloquial test in the language subjects, and a rira rocs examination in other subjects in the case of examinations above the Intermediste are recommanded to he used only io doubtful cases to determice whether the stodent shoold he hald to have passed, or in what class he should be placed.

Chapter X desis with the most important question of the onmber and qualifications of the staff sod the work to be expected of them. The proposal is to keep op the present divisien ioto officers of the Iodian Edocational Sarvice, Proviocial Educational Service. Subordioate Educational Service and Jonior Assistants (i.e., poong graduates appointed on temperary duty). Such a classification or agmething similar to it seems to us occessary from the usture of the case, but we hope that Indians educated and trained in England and not in any way inferior to Englishmen in . attainments-meo like Mr. Parsnipye, Dr. Bose, Dr. Ray and others-will be freely admitted ioto the Iodian Educational Service and not relegated to the Proviocial Service simply because they are Indiana. The Committee calculate that excluding the Principale of Colleges there would be required 22 I.E.S., 43 P.ES., 21 S.E.S. men and 34 J.A.'s for all the sobjects both in Arts and Sciences. What we stack more importance to theo the number

is the question of qualifications of the LES men The Committee is evidently convinced that the present system of recruitment for thu professoriate in Government Colleges does not secere the best men possible, and un this point public opinion is quite in agreement with their views. But the causes for this state of things are, wa think, not exactly what the Committee assigo. In their opinion "Young Englishmen however brilliant, who, having only just finished their axaminations and started priginal work, come nut to Iodia, fied in many cases their outhesissin weakened by the lack of an inspiring surpronment and their difficulties exaggerated by the absence of the accustomed facilities and the help of the older mon." The Committee therefore recommend that generally men of about 40 years of age should be appointed, as younger man will not have had the necessary experience, and that at least at the cetset, a limited number of these should be men of eminence who have made names for themselves in Enrope, whose services are to bu got on special terms on salaries of Rs. 2000 or even more per measure of necessary. The advantage of getting auch emicent men is that they will serve "as a connecting link with Lurope and so assist in kacping the University in touch with niher centres of learning and research. They will put energy and high obaracter into all bracches of this teaching of their subject. They will in fact teach the teachers-the most important branch, perhepe, of the work of a modern professor." We hope these recommendations will be carried out in their ectirety.

The present method of recruitment has given no estisfaction because so far from briflient scholars being selected, thu young men

seat out are not aven third rate men, and the principles which guide the becretary if btate in making the selection are not paterly People therefore suspect that nepotism pravails en this matter in the fadis Office. It is there fore desirable in our epinion that vacacces abould be widely advertised in England and the best men available, men who have had dustinguished University careers and have already had some experience in carrying un research work in England, shoeld be appointed on salaries sofficiently attractive and on short terms if necessary, Young men fresh from the Universities may be appointed but they must be selected by a Board appointed for the purpose in England consisting of Professors of English Univerasters, and they must be made to go to Lurope every four or five years and keep themselves in touch with the most up-todate davelopments in Science in that country, They may be granted even thou full salaries daring these periods provided they produce satisfactory evidence of their diligence in this respect. We want as many such Europeans as possible in the professoriate provided they are men who will sympathise with the students in all their difficulties, and not develop Bahadarism, but associate with the studeots in and not of college as far as possible. Emineot men ahunld be secured regardless of cost for the teaching of Sciences, History and Economics and Luglub. We would recommend that all aecond grada colleges should have at their head Englishmen or Indiana trained in England or other European countries. It is only then that University education in India can come into line with that of the modern civil ized countries of Europe and America.

The other noticeable point in this chapter is the classification of the whole teaching

staff into (1) Senior University Professors, (2) University Professors, (3) Professors, (4) Assistant Professore and Demonstrators, (5) Junior Assistants. A Senior University Professor is the Chief Professor of a subject in the University to he appointed by the Chancellor from among the University Professors. A University Professor is defined as a Professor who takes part in postgreduate instruction and on whom the title is conferred by the Chancellor. The term Professor used without qualification denotes the senior teacher of a subject io a college in which that subject is taught up to the B.A. stage. The term Junior Professor nr Assistant Professor denotes the other permanent members of the staff according as they are, or are not, of the status of an officer of the Provincial Educational Service. Besides these there are to he Demonstrators and Junior Assistants. These lest are young graduates, i.e. M.A.'s and M.Sc.'s end D.So,'s appointed to take part in the work of instruction, especially totorial work, for the temporary periods of three years or nutil they secure employment ontside or ere absorbed into the colleges. This, we consider, is a very useful arrangement hoth from the point of view of the young men themselves and from that of the University. As pointed out by the Committee, the employment of such men will enable the Colleges, by increasing the proportion of teachers to students, to lessen the size of the junior classes and to give a largor measure of tuition in the senior courses, without jucurring the enermone expenditure of making large additions to the Indian and Provincial Services. There is a load complaint that the Educational Department in Madres, or for the matter of that in the

other Presidencies, does not attract the hest' talent from among the Indian University men. The practice here recommended would, we think, go some way in remedying this evil if Government would institute a large number of scholarships and choose men from among: these junior essistants of the colleges to go to England and study in the English and other Universities for two or three years the latestmethods of teaching and of inepaction on the condition that they should serve in Government or Aided Colleges in the capacity of teachers or in the Inepectorate. Of course, in their case the age limit of 25 for employment in Government may be exceeded. The money thus epent would be certainly well epent. Besides, Aided Colleges are sure to have recourse to these junior assistants or may ha compelled to do su for recruiting their staff and will be obliged to offer them larger salaries. than they get as junior assistants and better. prospects of promotion in the future, and this will indirectly improve the position of those enteriog the teaching profession even in private colleges which are now generally run on the 'cheap' principle.

Chapters XI and XII deal with Accommodation and Equipment and Fees and Scholarahips. We do not propose to enter into the details of these subjects as they are not likely to interest our readers in this country.

Chapter XIII sposks of the Residential System. The Committee are of opinion that the new University will not Infili its purpose unless it provides for the residence within the colleges of all stodents not living with, parents or duly authorized guardians, and even this latter privilege they would limit by, special conditions such as that the guardian should be such as are sproved by the

of Orientalia eviaced by Government and applauded by a small ecction of penadonationalists. These latter are good natured mentlemen who are totally ignorant of the anlended editorial and research work in Sanskrit done in Germany and in recent daye in Lugland and France and the United States and who therefore believe that Westerners have everything to learn and nothing to teach us in matters Sanskribe It is the natural outcome of this behef that enecial protection should be afforded to Pundits We quite agree that Pundita should be given a living wage but when this new-horn love of Pundits goes hand in hand with the policy of depriving the country of the service of modera German and English scholare we feel that when we want bread we are given stone. How is it that echolars. profound and sympathetic, like Cownil, Bubler, Keilhorn are not nowadays imported into India? How is it that the Registrar of tha Calcutta University is the solitery relic of on extinot species? By all means nav Pandits to keep them alive, hat give as scholars to teach na modern mathoda for modornism aloue can save India Medizovaliem we have enough and to spare

Sir William Ramesy and Professors Collise The birth and und Pattersons recoully death atoms meeting of the Chamead Society which forms a totable contribution to the newer echool of physical thought. In this opening years of this contary Sir William Ramssy and Mr. Soddy proved the indestructibility of the atom—about which Tyndall and Birtley used to speak co usech—was not e fact, by their discovery that the element radium spontaneously degenerated into

belium and radium emanation , aix years later

copper was subjected to the action of radium emanation and a part of it was found to be changed to lithinm, similarly silicon as well ns thorsom yielded carbon dioxide nmanation or niton was then found to be extraordinarily energotic, more so than eny other known substance, so that a cubic ennimetre of at gevn mornthan three and a half million times the energy of a cabic centimetre of explosive gas," Whon the emanation decomposed, 6 per cent of the energy of the emagation appeared as \$ rays , but as it was difficult to deterraine whether it was possible to find signe of chemical transformstion through the S rays, Sir W. Ramsay made the attempt with old X ray bulbs. On heating them to 300° and collecting the gases, ha found they showed the spectrum of halton Whence the helinm ! 'It might sosa baa have been derived from the electrodes or from impact with the cathode or anticathode or from the impact of the cathodic rays with the glass" Moreover water treated with the radium emanation produced neon, and geeting the equation, belium (4) plus oxygen (16) equals neon (20) Professors Collie and Patterson starting from different points of investigation and performing experiments too complicated to be described here, arrived at the same result. The upshot is this that the experimenters nesisted at the aitificial production of elementa of low etomic weight-This is the most momentone discovery of these days in which great discoveries follow each other m mad haste

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A Monthly Record for India

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APRIL 1913

No. 4

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PHONETICS AND ITS APPLICATIONS.

PHONETICS is the science of pronunciation, the science which deals with the analysis and classification of speech sounds and their distribution in connected speech

The most widely known and on the whole the most important application of phonetics is its application to the study of modern foreign languages. The importance of the accence here lies in the fact that it canalles us to learn to pronounce foreign languages with great correctness, with far greater correctness than is possible by mere imitation.

It is a fact sometimes averlooked that the work of learning to pronounce a foreign language falls into two distinct parts. In the first place the student must learn to fores

and reproduce readily the speech sounds occurring in the language, and in the second place he must learn to use the right sound in the right place

The correct formation of the sounds is best acquired by careful imitation of good spack-rec combined with a study of phonetic theory. Ability to use the right sound in the right place in connected speech is arrived at by making use of phonetic transcription.

An illustration of the use of phoneise theory is found in the vowel sound occurring in words like sun; short. This sound is rarely pronounced correctly by Indians, but the correct proministion may easily be attained by observing the position of the lips. The lips should be very much 'rounded,' that is, drawn together so that the opening between them is quite small and as nearly round as possible. As this lip position is munitural to many Indiana it is often useful to practise lip exercises with the object of cultivating facility in this use of the lips. Such are

0 2 0 2 0 2 4 0 2 0 2 0 2 4

• The phonetus symbols here used are those of the International Phonetis Association. In it the corel in som, 1: the towel in sec, e: the rowel in bird, 2 the rowel in see 2: the rowel in colm, the : and cates length of the vowel In practiang these exercises cars should be taken that the whole of the work is done by horizontal motion of the corners of the type. There should be no vertical motion of this linewripar. The tendency to liwer the jaw for the 1, a and a may be corrected if necessary by holding the end of a pencil between the teeth during the exercise.

The uss of phonetic transcription is exemplified to the two prononceations of minerous small words such as and of, but, from, hare In come cases, as for instance when pronounced by themselves, these words have strong vowels, and rhyming with hand of having the same rowel as not, etc. In other cases, however, these words are preconneed with svery short indistinct vowel identical with that beard in the first syllable of about (often called the 'neutral' vowel phonetic symbol) 'The following are examples of sectances in which the shore words have this your.

Father and mother,
The king of England,
All but one,
Away from London,
I should'nt havn thought so

It is very rare to find Indiana who mee this 'nestral' vowel correctly. They genurally meet and the second second second second meet store, worsel severywhere. As no simple rules can be given for the use of the neutral vawel, the fault can only be corrected by continual reading of phosetim texts. By this means the sindant gradually gets to know the oreconstances under which such worsels should have strong vowels and the order should have strong vowels and the order nuder which they should have the neutral vowel.

It should be observed that a knowledge of phonetics and the methods of applying it to the etody of foreign languages is parts colarly valuable to explorers, missionerest and all others who have to learn remote and difficult language. A good training agers all phonetics will enable a person to acquire a good promocestico of onch languages ever of there are no assistaterty books and no good teachers. A person who has had such training can analyse for himself the pronuncation of the language he is studying, and details his own exercises for learning to proconce the difficult sounds.

The writer has it on good authority this missionaries cometimes go to China for several years, and after antiquing the language the whole time, are still mashle to make them selves understood and have to give up the language in despair. That anoth a state of things can cruck cannot hut fill a phonoisian with amazoment. From perconal expenses with the Cantoness dislated of Chiness his writer a shile to say with conditions that a phonoisically trained atthock can acquire at any rate a perfectly intelligible pronuncation of this difficult language with a few weith a systematic work.

It abould be observed forther that a thorough knowledge of phonetic theory and experience on the use of phonetic theory and experience on the use of phonetic transcription are absolutely essential for these who wish to take down in writing languages which have hitherto into been written or which have hitherto into us direct orthography. Much harm has been done in the past by massionaires and others attempting to write down such languages without proper knowledge of phonetics. The result has been the the systems of writing adopted have offer hees not nearly so good as they might have been, and have sometimes been extently in the leading or erroceose in some respects.

. The writer would here like to urge the desirability of applying phonetics systematically to the study of Indian languages, not as they theoretically ought to be spoken but as they actually are spoken in ordinary conversation. What is wanted is that the formation of each of the sounds in the ordinary spoken form of each language abould he carefully described, diagrams being drawn when necessary to show the correct positions of the organs of speech. When the formation of each sound has been determined, the appropriate phonetic symbols should be assigned to them and passages of a conversational style should be written out lo phonetic transcription. It is suggested that for the cake of oniformity the recommendations of the International Phonetio Association with regard to the use of phonetic symbols should be adopted. These recommendations will be found in a pampblet ectitled "The Principles of the International Phonetic Association" (obtainable free of charge from D Jones, University College, Loodoo W. C.), Such phocetic analysis woold prove an icosleniable been both to Eoropeans desirous of learning to speak Indian languages and to Indiane wishing to learn to speak languages of other parts of India.

Besides being of assistance in counserious with the teaching and learning of foreign languages, phonetics has various other nees. An application which is much in vogos in England at the present time is its application to the atody of the mother-toogne. In England people have the idea, rightly or wrongly, that certain forms of pronunciation are good while certain others are bad, Thus most adocational authorities regard Cockney as being bad, and it is a fact that cannot be diagnised that a Cockney prenauciation may be a serious bindrance to a person in life. By means of phonetics, those who speak with Cockney or any other underirable

pronunciation can learn to obange their pronunciation if they wish, and adopt the form which is regarded as a better standard.

Phonetic transcription has also been used with success for the purpose of teaching children and illiterates to read. It is possible to teach an average child, at the ordinary age at which children start reading, to read phonetin texts pretty fluently in about two months. The child who has been thus taught bas a considerable advantage over other children. He is shie to go on improving his mind by reading* during all the time that the other children are struggling over the inconsistencies of convectional applling.

Of course the transition to ordinary spelling has to be made sooner or later, but pretical experience has shown that this transition is not nearly so formidable as might appear to those who are onfamiliar with phocetic methods. The actoal resolt arrived at by those who have tried the experiment at but these who have tried the experiment is that, in the end, the children who have learned on this method actoally write in cordinary spelling more correctly than those who have sever seen anything but ordinary spelling for the contract of t

Phonetics may also be used with advantage in connection with the teaching of elecution.

There are numerous suitable books; see under the beading Phonetic Reading matter in the bibliography at the end of this article.

^{*}Sea particolarly V. Partington, The Transition from Phonetic to Ordinary Spating (published from Phonetic to Ordinary Spating (published from Phonetic Association, price 4.1) Miss Partington ears (p. 1): "It has transition from the phonetic arript to the ardinary proliting is carefully worked out, the children who beginning invariably make better spellers from the beginning invariably make bester spellers from the used that have been about the properties of the properties of

Pronnciation varies very much with the same individual according to the rate of speaking and the circumstances under which he is speaking. It is essential that the elocutionist abould understand and attact these differences, and he will find phonotics of the greatest assistance to him in this sendor.

Similar considerations apply to singing The pronunciation of English used in singing differe very mach even from that resol in the most careful style of speaking, end still more from the pronunciation used in conversation. Those who learn singing generally have to acquire the aconds whole are recognized as correct or desirable in good singing simply by imitating their teachers. This same resulted may, however, he attained much more easily and much more surely by the study of a lattle phonetics.

Phonetica is further of the greatest importance to students of philology Philology is the science which deals with the history of apoken words Without phonetics philology is apt to degenerate into the history of written symbols. We still occasionally come ecross students who repeat in parrot fashion that "h hecame g by Verners law 'and that " a hecame y in volger Latin' and can tell na things about 'closed s'e " and "open ga" and "palatal ke ' without knowing in the least what sounds are represented by these lettere Such cases are now fortunately the exception Our heat teachers now realize that philology must be based on phonetics Students should be able to pronounce all the sounds with which they have to deal, and should be able to draw disgrams of the

organa of apecoh to illostrate the principal sound changest

In conclasion it may he well to give a few indications of the extent to which phonotics is at present being nard in England. Phone tics is need not only in Universities and Training Collegee hit also very widely in schools Information with regard to this will be found in the Board of Education Circolar No 797 seased last animer. The appendix to this circolar is particularly worthy of attention. It gives the actual time-tables and syllahases of modern language instruction in soveral of the best echools.

Is one of our Universities, Belfast, phonetice and the use of International Phonetic transcription are compulsory for all students taking French In Scotlard phonetics is a compulsory subject for all students in Terming Colleges In London the London County Conneil recommends all the modern language cachers in its schools to hecome producent in phonetics, and provides free instruction in the subject for them

Much other interesting information with regard to the eatest to which phonetics to seed will be food in a pamphlet entitled "The Means of Training in Phonetics acadeable for modern language tenders" by L H Althaus (published by the Interestical Phonetic Association, price 5d)

The following is a list of works which may be finned useful by those interested in the anhyect. (In those marked * the transcription of the International Phonoico Association is used Those marked † are antiable for use with children)

See C M. Rice Voice Production with the aid of Photoetics (Cambridge, Heffer)

fe g to show how the Old English yowel is words I is uchite [i i] could not possibly have arrived at its modern form [ai] without passing through the value [ei]

On the Use of Phonetics in Language Teaching. H. Sweet, Practical Study of Lengusges

(Dont. London, Sr. 6d.) * O. Jeoperson, How to teach a foreign langu-

ego (Sonnenschoin, London, 3s. 6d.) * W. Rippmann, Hints on Teaching French

(Dent, London, 1s. 6d.)

Phonetics of English.

. D. Jones, The Practical of English (Cembridge University Press, 2s. 6d.)

H. Swoot, Primer of Spoken English (Oxford University Press, Ss. 64.)

W. Rippmann, Sounds of Spoken English (Londop, Dent, 1s. 6d.)

† W. Rippmenn, Sounds of Eoglish (London, 34.) Deut, 1s 1

"† L. H. Altheos, Sounds of the Mother Tongee (London University Press, 2s.)

B. J. Lloyd, Northern English (Leipzig. Tenbner, 3s. 3d.)

W. Grant, The Prononciation of English in Scotlend. (Cambridge University Press, 3s. 6d.)

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will be found to the hibliography contenued in the abeyomeotioned "Principles of the International Phonetic Association 30

UNIVERSITY COLUMN ! DANIAL JONES LONGON

THE IMPERIAL GOVERNMENT ON EDUCATION INTRODUCTION

The recent Resolution of the Government of Indie on the sobject of aducational policy is bound to rook with some of the epoch making documents in the History of Indian Education If Maccoley and Lord William Benticck are se membered as the pioneets of Westero Education to Iodis, the name of Lord Hardings will go down to posterity as that of a state-man who eatiled it on a wider and more organised basis Anthing has been more apparent to the work of Lord Hardroge, aroca batook op the cuerone dottes of the Vicerovship of Iodia, than his strengons sodeavours to the cases of educational progress The movement to start a residential University at Dacca, the practical sympathy extended to the two great estious schemes of the Hundes and the Muhammadana for commonal Universities, the attention heatowed on the question of the educa tion of the messes, and the spacial grants that have been pouring in upon the Provincial Governmants from tima to time, testify to it in no mistakable form.

THE FORMATION OF CHARACTER.

It must be an noterasting took to examine the resolution, with e view to appreciate the new

lines of development that have been suggested to those angaged in edocation and estimate the value of eng work that may be setered open to such directions The most pressing of Judian sdu cational needs ta recognised to be the formation of character, The Government is only prepared to watch the expariments to moral education that are now being made to various parts of the country maintaining an attitude of strict religious It sa doubtful if the Government of pentrality India to right in thinking that the tandency of the existing systems of reneation to India is to develop the sotalisctual at the capacie of the moral and religious faculties. But there cannot be any hesitation in sobscribing to the ideal set torth by the Government, that to the forefront of their policy should be placed the formetics of the character of the scholers and the under-graduates ander toution

Allied to the question of the imparting of matruction in right coodect, is the contemplated creation of circumstances that will tend to moral porely The sopply of residential accommode tion to the popula in High Schools and Colleges se thes given a deserved promiseose and the wholesome unfinence exercised on the unmeted of bostels, by paranoa of character entrusted with the work of looking after tham, will be smong the most priceless banefits of the new system If has been a long recognised trath that the phys cal sorroundings of any baseg have a striking seffinence no his character, and the claims of annitation and of general orderliness are also pressed by the Government for the same purpose It is a wholesoma idea indeed that the principles of health and sanitation should be incolcated in the pupils' mind as early as possible, and the Government has therefore wisely resolved that the work abould begin even in the Elementary classes

THREE CARDINAL PRINCIPLES

After this preliminary survey of the conditions tending to improve character, the Government passes on to a consideration of some cardinal question in relation to educational advancement in India. The following principles are laid down for future guidence:—

- (1) The steady reising of the etandard of existing institutions should not be postponed to increasing their number when the new institutions cannot be efficient without a better-trained and better-ouid teaching staff.
- (2) The scheme of Primary and Secondary education for the average scholar should stradily, as trained teachers become evaluable, be directed to more practical cods, eg. by means of amount training, gardening, out-door observations, practical teaching of Georgaphy, school excursions, organised ours of instruction, etc.
- (3) Provision should be made for higher studies and research in fudis, so that the fadien students may have every facility for higher work without havior to go abroad.

The first of these principles takes a note of a real danger to the cause of education, which would injure it effectively, whenever it is allowed to be guided by idealistic authorisate, who are lored by the glamour of a mare increase in numbers. Sufficient emphasis cannot be faid on the idea embodied in the second priociple that the ends of Primery and Secondary education must be made more practical. One bee only to pender for a moment un our educational system, to see how far it is from faitilling Harbert Spencer's ideal of fitting every student for 'complate living.' Even the classes which can afford to indulge in what may be called the luxuries of education have often regretted the want of practical elements in education. The want is rendered much keeper in the case of people who have to face the hard realities of the world immediately after leaving the class-room. The son of a merchant or a manufacturer, would hardly pick on enything that will be of special use to him in elter-life, from the system of

education now obtaining in India and the corner it is remedied, the better will it be for indien education. The Government will out have to complete shout the indifference of the community at large in these matters, with the same degree of vehemones and bitterness with which it does it at the present day. The third principle, of affording opportunities for research and higher study is puly the percessary conclusion to the long series of efforts that bays been made in this country during the lest one captury to introduce higher and higher classes of study. Toough it most be admitted that for a long time to come the countries of the West must necessarily be in advance of Jodian Universities in facilities for research, efforts must be made to raise the lavel here gradually, so that in course of time, education in India will not imply any stigms of inferiority, in eree the most unsympathetic

BURNESTARY EDUCATION.

gourlere.

The possible operation of these priceiples in the corresponding stages of Indian Education are dealt with in the next pert of the document. It is estimactory to see the Indian Government recognise the pressing needs of Elementery Education,-it proposes, in effect, to introduce the principles of Free Education, Special solicitade is to be shown to the poorer and more backward classes. Attention must also be bestowed on some new features which are sought to be introduced. Indigenous schools of the old type ere also to share in the patronage of the Government. An attempt is to be made to regulate the courses of instruction in rusal and orban areas, to epit the special requirements of village and town-life. Better facilities for the fraining of teachers, and for a periodical refreshment of their educational experiences are other noteworthy features of the echeme. The law financial status accopied by itachers of Elementary schools in the constitute lung been a disgrace to everybody concerned with them. But thanks to the renerous

and practical sympathy of the present Viceroy. there is to be an appreciable improvement. The gladdening declaration has gone forth: Trained teachers should receive not less then Re 12 per month, apecial refea being given in certein erose They should be placed in a graded service and they should either be eligible for a pension or admitted to a provident fund. The message will cheer meny an unfortunate soul, tooling for the very usconsiting of life even when rendering to the community the velueble service of educating its young minds. Veruscolar schools are also to ha pressed into service, to sobjects the work of expansion, and there is to be an extension of the henefits of edocation on a very large scale It may not be d floult to real se the bone 'It le the deare and hope of the Government of India to see in the not distant future some 91 000 Primery public schools added to the 1 00 000 which already east for boys and to dooble the 41 millions of papils who now receive instruction in them ' The claims of Femele Education have not been forgotten end the Government of India drew particular attention to the processity of making the curriculom somewhet different and more practical than that obtaining in bore schools The larger use of women teachers and the securing of continuity in control and suspection are other reforms that here bero engrested

SECORDARY EDUCATION

Those who have been fighting for a more adequate approximations the Government accordancy resistance will welcome the Government processes that is accordance with the recommendations of the Pdentional Despatch of 1884 and the Education Commission of 1882, the work of Secondary Education must be left as far as possible to private enterprise. The Grant in And Tales are to be arreaded other sheet because the first and the recognised as necessary sed conforms to the prescribed attacked of management end efficiency obtains the special essistance which it requires to order to sitten the failest management and the requires to order to sitten the failest management.

utility. The claims of a complete School Finel Course, freed from the domination of estimates are trgod, but we do not know if it is practical to attempt the seamnation of individual candidates as echools by the Iuspiciting agency, with a view to reastine and regolate the course. The expenditure of money in that direction, for which the Government seems to be prepared will only reach in the weste of public revocasion on measure which seems destined to fail, owing to its extremely impracticed nature. The profitcal recommendations of the Government are however as follow, and every one of them as calculated to advance the cause of Secondary Effectsion.

(1) To improve the few cristing Government echocis by (a) employing only gredular or trained teachers, (3) introducing a graded serrice for teachers of English with a minima salery of Re 400 per mostle echocist of the second services of Re 400 per mostle (c) providing proper boats accommedation, (d) introducing a school coorse complete in itself with a staff soffic out to teach what may be called the modern side with openial electronic of the development of an historical and a grographical scase, (a) introducing manual treasuring and improving secupe teaching

(2) To increase lengthy the grants to-ed in order that ended neutrotimes may keep pace with the supprovements in Government schools on the abovementioned lunes and to encourage the estahistment of new saided neutrotimes where uncesexty.

(3) To mult ply end improve Treining Colleges so that treined feachers may be everlable for public end private matitoticos.

(4) Tu fourd Govarument schools in anch locs hites as may, on a sorvey of local conditions and with dux regard to economy of educational effort and expense, he proved to require them

TECHNICAL AND PROPERSIONAL EDUCATIONS

Quate a number of interesting and valuable

Quite a number of interesting and valuable suggestions here been made with regard to the development of Technical and Professional Education of all kinds. The Government has undertaken an enquiry into the improvement of the conditions of technical and industrial education. It is, interesting to note that institutions of all grades relating to the class ere to be remodelled, e. as to bring them an east Indian needs and conditions as possible. It is boped that them at least, the interest of the Indian community will be evoked and Indian capitelists will be personaded to take advantage of the products of each training.

Many on enthusiast of art-education in lodis hee noticed the greet gulf that exists between the artistic traditions of the nation and the exotic elements that here been introduced into the Art-Schoole. It is to be bridged and an effort is to be made to combine Indian treatment of subjects with Western technique, though the Government proposes for the present, to take on band the first step in the reform, namely, of preserving for, and in Indie, ecientifically erranged collections of the products of its encient and modern erte and oraits. Even the officialdom of India has come to realise that the understanding and appreciation of Eastern ert-work in Europe and America is dreining away from the country good epecimene in an increasing volume into the public collections of those continents. Somewhat allied to this, is the proposed attempt to start an ethnographic museom et Delhi, designed to illustrate Indien civilisation in all its phases.

It is probably not possible to congratulate the Government of India on the attitude of compliances with regard to some other departments of technical and professional training, like advantage in one of the professional training, like advantage lot as it is not very long eigen there was an iostalment of reform in these directions, it may not be desirable to arge the need for further improvements immediately.

The strongthening of the Medical Institutions that exist ut present and the opening of a School XIX

of Tropical Medicine are some of the reforms contemplated in the teaching of medicine. The narrow basis of Indias Society has andortonetely prevented the femele section from thing the follest benefit of the medical treatment evalible in the country and the Government has wisely resolved to pay special attention to the treiting of a large number of surses and lady doctors. . .

In spite of the large smoont of fees accraing from students in Lew Colleges, there has ill now meet been no adequate attention bestowed on them. It is now proposed to continue the recent policy of concentration and improvement which has resulted in such great benefit in Bangel. Stitable extrangements are also to be made for the residence and guidance of Law stodents—the precising accessity for it will be patent when the paried in life associated with a Law andsent is given some consideration.

To those who here watched the recent bletory of Iodies Universities, it must be patent that commercial clouds in second-ting recognition in high scademios! proceeding recognition in high scademios! quarters. The Bombey University has opened a Fesolty of Commerce, and there was an extempt in our Presidency for following in her footsteps. In response to a need which is the sciedes in various perts of the country, the Government has sectioned the satabilithement of a Commercial College of a saferance daracter in Bombey, and are aren contemplating a scheme for the organized study of the sconomin and allied seciological problems of Iodia.

Teaching Colleges, dealt with in snother part of the resolution are also to he strengthened and increased in number. The interchange of ideas between province and province, on the subject of the training of teachers and the encouragement of farlough studies, ore two seggestions which are as practical as they are valuable.

University Education.

The desire on the part of the Government to make University Education in India as modern and efficient as nossible, must be patent to all who have had the privilege of reading the recent report of Daces University Committee The new features contemplated in that scheme are to find expression in various decrees, in other provioces and in the existing Universities. There is to be a multiplication of Universities and in every one of them ao attempt is to be made to develop corporate life, and to train up young men whom the country will be proud to ac kunwledge as its citizens. If the Gavernment of Iodia has not thought fit to deal more exheust avely with the anhiect, it is probably because of the Vicercy a personal proconuncements that have heen made already, and of the nomerous opportu nities that will soon he increased for the treatmant of the anbiect

EDUCATION OF SPECIAL CLASSES.

The Government has all along been enrious to show particular cossideration to minorities as well as important classes I na occurdance with that policy the Chiefs' Golfigna are to be improved, by a revision of their courses, so as to make them more useful, and higher to intellice that standards, and by a strengthening of their staff. The allowance of special concessors to achools for the domestical community in sunther plank to the programme of educational reform There is astisfaction expressed at the recent awakening of Mohammadans for the educational model of the community and they are to meet with the liberal encouragement which they have received in the peak.

CRIENTAL AND FOREIGN EDUCATION

The institution of an Oriental College of an advanced themselve at Delin has long lives in the air, and a definite princeocenees thas now been made about it. In addition to the facilities their made about it. In addition to the facilities their periods at a central place in India, occouragement is to be given to Oriental Stod or throughout the country by large grants to indigenous Oriental institutions, the approximent of specific positions and the proposities of specific positions, the approximent of specific positions.

cally qualified Inapectors to supervise their work, the provision of posts for highly trained Pundits and Manlvia and grants of monay-research for Quantial work

While appropriating the Government's anxiety for the moral welfare of the youths sent to Eogland for educational purposes, it is difficult to agree with its opinion, that the institution has been a failure on the whole Nor will there be eny approval from right thinking men in the country of the scheme of the establishment of a school in the country, staffed ontirely by Europeans Wo do not asses y epecial need that the metitute can serve, nor do we desire in the least to see such an implied perpetuation of the elleged inferiority of the training offered by Iodian teachers The true solution of the educational problem in this direction, consists, not in the creation of wholesale European metitations in the coontry, but in heatowing upon I odiene the training and experience necessary for such supering work

THE EGUCATIONAL AGENCE

If a benevolant mesors of reform has been engagested, in the revision and expansion of doctational courses and institutions in the country, the Coverment has not forgotten the need for having the specty fitted for such a task. The improvement of the educational energies, Indian and Ricropean, has been thought of, and errangement are also to be made for the general improvement of the sedent tional agency. The approximant of expansional energies of the Directors of Pable Instruction of various provinces are other interesting factors of than any work of grammation.

CONTINUE

Ecough has probably been said with regard to the details of the scheme, to demonstrate the wisdom and far reaching character of the prociples expounded by the Gavaroment. There could probably be on bestation in the erreamstances, in haping that the 'Uncero's appeal to the Indian public will be responded to in a spirit worthy of the great occasion and the responsibility davolving upon every true son of India:

"The Governor-General in Council trusts that the growing section of the Indian public which is interested in education will join in establishing under the guidence and with the help of Government those quickening systems of education on which the best minds in India are now converging and nu which the prospects of the rising generation depand. He appeals with confidence to wealthy citizens throughout India to give of their abundance to the causs of education; in the foundation of scholarships, the huilding of hostels, schools, colleges, laboratorics, gymnasis, awimming beths, the provision of play-grounds and other structural improvements, in furthering the canes of modern scientific studies and especially of technical education, in gifts of prizes and equipment, the endowment of chairs and fellowships and the provision for reesarch of every kind. There is a wide field and a nobla opportunity for the exercise on modern lines of that charity and benevolence for which India hee been renowned from socient times." P. SESHADEL

----THE TEACHING OF ENGLISH IN PUBLIC SCHOOLS.

Objects of English Education in India .-"The purpose in learning foreign languages," says Otto Jespersen, " must be in order to get a way of communication with places which our native tongue cannot reach," and to have "access to the hest thoughts and institutions of a foreign nation, its literature, culture—in short the spirit of the nation in the widest sense of the word." The former is a utilitarian object, while the latter is an intellectual one. In Germany, according to the

anthority of Mr. Sharp, the object with which English is studied is purely utilitarian. He says that the Germans have little symnathy for English Literature and that they learn English by the shortest cut in urder to make their conditions of trade easy. and to equip the German hasiness man with the necessary command of the language. For this purpose the German requires a command usly in speaking colloquial English, This gave rise in Germany to the adoption of the New Method or the Direct Method, as it is called.

It was Victor that first emphasized the necessity of revolutionising the methods of teaching English in Germany. In Holland and in Belgium also the object with which English is studied is utilitarian. Again, the Germans, the Belgians and the Datch take an English only for cartain purposes and do not learn English with the objects and for the parposes that we have in view in learning English in this country. Here English edncation was intended as a meana to create a section of people who should form "the channel through which Western ideas should be conveyed to India," and to create a class of mediators between Government and the people. It was not for purposes of international communication or trade that we began to learn English. We did not, like the Germans and others, feel the need for English when we took to it. When the Government of Iedia became British, a need was felt to educate the Indians in English for more or less administrative purposes. To conduct the Government of England in this country with ease and chesply, it was necessary for the rulers to create a section of educated Indians. We took to English, therefore, for certain practical purposes, which, in their nature, were different from those of the Germann and the Dutch The is one side of the question

I shell now turn to the other side of the question The Orientel mind is mainly spiritual, while the occidental is mainly maturial The orthography of our languages, the thought content of our literature, the nenda of our nation pro all different from those of the English But we have come under the infinence of the British Government and having had access, through their language and literature, to their vast stores of knowledge, it is not possible for us to go back now and say, 'we shall have nothing to do with English, how strange and unaffied it mey be to our own languages and litera tures Our purpose in learning English is ouly partly utilitarian Wa have also in view thn other and more important purpose of getting "access to the hest thoughts and metatutions" of the British nation, its literature, oulture and spirit We want to add to our stock anything that may be useful in the stock of the British Our nation has a long history behind it Our literature is vast, But it requires to be added to, in order that it may become modern. Our thoughts are traditional Something new has to be added to them, so that we may move with the times. Our object in learning English is not to displace or disavow our ancient language and lore, hat to improve them and bring them up to the level of modern needs Lugheh people have got almost all our literature translated into English Thus they have got access to all that is good and useful in our ancient literature; while, we have not succooded in adding to our ancient literature much of the foreign that is good and useful for our purposes. One difficulty here is of course the fact that our vocabularies are limited. But unthing is limited, if our will is not limited. If fadia should over be great among the nations of the world, she should have a literature in no way behind the requirements at modern times.

Whatever we may have done in the line of susproving our stock of literature end whatever we may still hope to do, it cannot be depend, for our purposes here, that we require special training in the art of Translation. Every one of ne knows full well that, under the present system of education, we can traus late any vernacular or Sanskrit passage more easily and more aptly into English than we can do the reverse process. Our know ledge of English as more perfect and more eystematic than our knowledge of the verusculars In order to translate into accorate vernacular, a passage in English, we require an accurate knowledge of the vernacular and of English We do not translate word into word, but thought into thought We should feel the thought underneath a passage in English an order to put it into accurate vernacular language We must also know how to attain accuracy of expression in the vernacular Does it show that we have us command of Eoglish or no command of our own mother tongon? For our purposes, we need, but so much of colloquial English, as the Germans and the Dutch require, but a mestery of literary Euglish. But then we should also have fluency of expression in epecking should nee our knowledge of English for translating the best thoughts expressed in English by able thinkers into our vernaculars and for enriching our stores,

For trede we have enough English already. For communication, we have enough of it too For mediation between Government and the people, we have snough and more of it too We do now require a good command of English for other and more important purposes. We should enrich our stores, we should add to our literature and science, we must modernies our language and hierature

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This is why I have not been able to under stand the use of the adoption of the direct method of teaching English in this country, as it is understood in other countries. On the other hand it will be more useful for its opay special attention now to a thorough and masterly study of our vernaculars and of our national tongue, etc., Sanskrit If so are we to adopt the direct method of teaching English or not? It would look as if my romarks ahave naswer the question in the negative But I have alan an affirmative subsweet in it.

The Direct Method -Let me first enunciate the principles on which the direct method of teaching English is hased and consider the ends it has in view "The Direct Method," says the writer on the Teaching of Languages in Belginm, " consists in ntilising all available time in the study of the foreign language, instead of spanding a large portion on the mother tongus" The direct method seeks " to attain in one year all that has hitherto heen acquired in three years of English instruction " For this purpose, the method is intended to "make the pupil at home in the foreign language" through the medium of "actual speech," and through the disuss of the mother tongue, except where it leads to the quickest comprehension of the fareign tougne Thus we find that three points are stressed on here, cur, the time needed for learning the fareign tongue, the command over the foreign language, and the purpose of

translation into the mother tongue of the learner

Advocates of the direct method freely say that a child of 3 or 4 years of age should be immersed at once in English surroundings and should be taught English, as if it were ats mother tongue. Greater denationalisation than this we cannot imagine This false view of the method strikes at the root of our avistance The words of Mr Nelson Fraser on this point are well worth noting "I have not adopted,' says be, "the visw of some reformers that as soon as the papil hagins a foreign language he should be plunged into foreign surroundings It appears to me, on the contrary, that, while the initial difficulties of the new tongue are heing surmonnted, the matter should be familier, and the pupils shanld work under the impression that what they are learning would be useful in dealing in situations which they can readily imagine." Add to these words, the equally important remarks of Mr Yates in his recent book on the Teaching of English by the Direct method He says. There is of course the difference in thought-content between their vernaculars and Eaglish, a difference which is not so marked in the case of French or German and English For continental boys have a share in European civilisation, and are acquainted with many of the climatic and other phanomana known to English hoys. Snow and frost," says he, 'for instance, are no strangers to them, whereas South Indian boys can have, as a rule, no conception of these things " Such being the fundamental difference between the Indian boy and the English boy, how can we sensibly plange our boys at 4 or 5 in foreign anrroundings? Is it possible? Is it deurable?

If, then, we should have the boy acquainted

with his own femiliar surroundings with conscionspess enough to interpret and feel them in e foreign language, how can we try the method upon a child of 4 or 5? That the child at 4 or 5 epeaks in its vernacular familiarly of all things it sees, is not due to training, but to imitation and instinct. How can a similar training be given to the child to English at that age? Is that ever to be smagned? Can an English child of 4 speak to any extent in Tamil or Teluga, however much we may try to train it? Even if it can, is it desirable to wrock the child's brain in this somersanit? After experience, Mr Nelson Frazer says that "the direct method is not intended for and is not snitable for the unrecry. "It presupposes," he says, "that boys have already learned in their mothertongue how to handle lenguage with conscious intention and are capable of following explanations in this tongne" He fixes the agest 10 or il (after personel experience and on the anthonity of German practice). when the foreign lenguage is taught to a hoy. This, while not putting a needless strain on the child's brain, gives a place to the vernacular and simplifies the curriculous, making education more substantial end more useful. than it would otherwise he. The preservation of varianolers, the encouragement of the study of Sanskrit, our common mothertongue, the improvement of nur languages and of our literatures ought to he our main object in education.

Early education of the child in the mathertorque and in Sanskirt —For this purpose, the child should first sequire a therough knowledge of its mother-tongue and of Sanskirit and then an accurate and equally thorough knowledge of English. The distan child is massly sent to school at 5, Some of

our modern reformers, following the psychology of European children, hold that our children also should not be sent to school till 7. Our children, owing to climetto end other reasons, ere quite developed at 5 and they will enrely be spoiled if two years are allowed to them to play when they ought to lears the elements of their mother-tongue. Between three and five, the Indian child should be taught to observe things, name them and distinguish them. Our Kindergarten system is not quite systemetised. It will be well for us to study the systems of Freebel and others and to systematise our Kundergarten If parents cannot take the trouble of learning the elements of Kindergarten and educate the senses of their children, it will be well if a few people in each village are trained in the Kindergurtan system and amployed for the early training of children. The best thing, however, is for the mothers to be trained systemstically in Kindergarten and to take up the early training of their children into their own hands None is greater to the child at 3, than its own mother. She can work wonders apon the child

At five, it is time for the child's education, to be taken up by the father ur by a guru or schoolmaster, preferably by the former. The child now becomes in a way conscious of itself and its curroundings. The father is the first man to whom it feels attachment, after its mother. It is the business of the father ta begin the keeping of the children to begin the suchbing of the children to be in the transportation of the muther-tongue systematically.

Method,—Our time-honoured method is to begin with the alphabet. The child is made to trace each letter on sand ur on a rough surface, to name it and to write it. As there is no difference between prononciation and

spelling in our lauguages, we find no difficulty in adopting this method. As the child's surroundings consist of familiar objects, we and no difficulty in acquainting the child with all its surroundings in a short time. The child is soon able, by justinct, imitation and training, to interpret chiects conscionaly. At this stage, after anflicient oral and written training in the elements of its mother-tongue, the child may be sent to a regular public school, say at the nge of seven. Now the child should come under the enpervision of a trained teacher and inte the company of other children. The child should now, for 3 or 4 years, he led on in its further stedies and should be disciplined under strict supervision. Every mevement of the child should he watched and guided by the teacher. The teacher should be a man of sterling worth and perfect character. He should love every child, whatever may he its frailties and however dull it may he. He shoeld he all sympathy. Under the guidance of such a teacher, the child should leave systematically all the subjects of the curriculum in their ontlines. The concentric plan of instruction should be followed. The child already knows the elements of its own language. The child is acquainted with ite surroundings and has its power of observation developed. On this material the teacher should now work, and through convergation and observation lessons prepared by himself to suit his pupils and his aims, and not through manufactured hooklets of cut and dried lessons, he should impart instruction in all useful anhjects, such as Geography, History, and even Science. The child should also have a good training in prectical Arithmetic and in Drawing. The . physical, moral and above all, religions education of children should he carefully

provided for. The ohild abould also be acquainted with Sanskrii. In passing, I might perhaps state that in teaching Sanskrii, the direct method may be very advantageously adopted. The usual method of teaching Sanskrii is not suitable at the present day, for it is not the only language to be learnt and it also takes away much time and energy. It was adopted in times when one was able and was prepared to spend his whole day in learning the language and its essentially religions literature.

Such should be the training given to a child up to the age of 9. At this age the child is no more a obil with an untrained head or hand, but is a hoy with his hand and bands systematically trained to observe, think, feel and do.

Reginnings of English: (1) Aga.—This is the stage when the teaching of English may be began. The hoy at 9, trained in handling language with conscious intestion and trained to think in his mother-tongue, is now fit to learn the foreign tongue by the shortest ronte.

(2) Uss of Translation .- " The first condition for good instruction in foreign languages," says Jespersen, "woeld seem to be to give the pupil as much as possible to do with and in the foreign language; he must be steeped in it, not only get a eprinkling of it nnw and then; he must he ducked down in it and get to feel na if he were in his own element, so that he may at last disport himself in it as an able awimmer." In order that this end may be attained, the first and the most important thing to do is, according to all the advocatee of the method, to avoid translation, i.e. to avoid the use of the mother-tongue in teaching the foreign language. Mr. Yates says that "the intervention of a vernacelar medium postpones the period when the student can speak without consciously translating from his native apeach into the foreign language" Mr Yates's reason than for avoiding translation is the sparing of time Bat he does seem to feel that the boy cannot but unconsciously traes late ideas into and from his vernacular language Otto Jesperson starts with the view that ' it is not translation for skill in translation) that we are siming at in teaching foreign languages," and so naturally he has no place for translation in the teaching of a foreign language German reformers, like Walter and others, whose object was to equip the Germans with a good and quick com mand of English for besiness purposes, fied no need for translation, in order to spare time Mr Nelson Fraser, on the other hand. asys that. " when the vernacular is the short est path to our end, we mest take it" and that " it is chimerical to think of excleding it from early lessons" For a boy of 9, with a good and more or less perfect previous keowledge of the outlines of every sebrect in his vernscular will it not he little short of absurd to begin with naming objects in Eeg hab and asking the boy to observe ' the achool roum and its tenant objects." If Mr Yates desires this to be done in English for a child of 4 or 5, why should not that little child learn these things in its mother tongue at 4 or 5, and translate these into English at 9? Will not the work of the teacher and the buy be made samer if the boy's brain is ploughed and manned with familiar things and sights, before it is sown with the excited seed? The easiest method then seems to me to be to acquaint the boy of 9 at once with the foreign language in relation to be mothertongse But at a later stage, when the boy

has got a comparatively good grounding in the foreign langeage, be may be asked consciously to avoid translation and to express himself and work only in English in the English classes According to the concentric plan, higher teaching of the advanced portions of all subjects of instruction might be through the medium of English and vernacelar first and of English alone very soon & as far as the subject of translation is coocern ed, I am against its exclusion at the earlier stages, but I am strongly against it at the later stages, say after the how has reached the age of 13 The boy after 13 should not be allowed to speak to his teachers in the vernscular and if possible, at home also for some years. But it must be remembered that, even when the boy is steeped in Eoglish aed asked to deal only in English, special hours mest be set apart for conscions and literary translation of Esglish ieto the vernacular as well as into Sanskrit and vice versa The art of translation should be consciously taught In this view I share with Mr Nelson Fraser

Having now d sposed of the age question and the translation question, having tried to prove bow the adoption of the direct mated as seited only for a boy of 9, and baving shown the position that translation should occupy in the teaching of English in the country and fur our perposes, I ahall now proceed to the other points of the direct method

(3) Use of observation — But before leaving of the subject of translatine in the teaching of English, I must refur to one or two points. My words above might seem to lay all stress me translation and to forget the importance of observation which is proposed by the advocates of the direct method as a substitute for translation. I do strongly apport the

view that teaching not unly of English but also of all languages' and subjects hitherto has been wanting in the element of training the pupile to observe and draw conclusions for themselves; and I do strongly also hald that if our hove chould turn their lives to any purpose in these hard days, they should be taught more through the eye and the ear than they have bitherto been. I du not averlook the importance and value of pictures and other materials in the teaching of English as well as of other subjects in the curriculum. What I meen hy my stress on translation is that we, in India, caunot sacrifice our real purpose to a little eceming case and possibility of teaching Eoglish to our children on the lines proposed by the strong advocates of the direct method.

Now, I shall proceed to the other points of the method. The points that seem to me to be of the greatest impurtance for our notice and practice deal with the teaching of correct sounds and the teaching to form along sound and intelligent lines.

. (4) The Gouin method.—I said that our boye chould begin English at 9 years of age, after they have been equipped with the necessary meterial of thought, for easily and consciously interpreting the genina of a foreign language. How then should the boy of now he taught Eoglish? The heat method for teaching a foreign language at this stage is that known as the Gouin method.

The boy is already able to think for himself and express his ideas in his makes-tangen. The teacher, according to this method, first explains in the vernacular that he is going to describe certain actions, which he would put ut the, hick-board. He names the actions in the vernacular and asks the pupils to recall them in their minds. The power of

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reflection is thus developed in the hoys. The matter is hased on the pupils' previous know-holdge. Imagination is developed in this process of recollection. There is also unity in the teaching as the teacher has to place the matter as process, not in the form of nononnected words. When the teacher has done this preliminary work, he now shandoms the veraccular and relates the action in English. The pupils repeat the English sections of the preliminary work and sech sentence after the teacher and sech sentence is then written out on the black-hoard. The teacher employs the method of conversation freely, This is the way that a foreign language

is taught according to this method. The boy need not have a previous knowledge of the alphabet. We may conveniently adupt the "Look and say method" for teaching the alphabet. The sentence might be written un the black-board. The boy knows its meaning and its import in the light of the pravious explanation. Not only the visual picture of the sentence, but also the mental image involved in it is before the pupil. Now the boy might he asked to analyse the thought and break up the sentence. The sentence might he onuscionaly broken up by the boy in the first instance into word-sounds and letter-sounds. I am not for the boy naw writing the letters ar words. It will be enough if he can give nut the sounds, The teacher must take great care to make each boy pronounce each letter and word ' correctly.

(5) Rounds and arrint.—At this point I might perhaps deal with the question of pronunciation at a little length. I cannot agree with those that say that boys should be taught sounds as sounds and made to exhibit phonetic experiments. Nor can I agree with reformers like Jesperson and

Walter, who want the boys to mester a phonetic script end then master a natural script The boy need not fearn any script, but the natural one, for it is the only one that is useful. Even here the first script they ought to be acquainted with is the printed one and that for purposes of reading The teacher should be properly trained in the correct pronunciation of English somids and should also know the reasons for the differ ence between the propagation and thu spelling historically. The teacher should be a well read man with full resources and ready wit. It is not deproble to entrust the first teaching of language to a trained Lower Secondary or Primary man Correct sounds must be fixed in the hoy'e head by mere repetition and imitation The boy need not know, for instance, that the sound of f requires the upper teeth to be put against the lower lip and the air allowed to rustle through the narrow opening, and that fue unvoiced, while e is voiced The teacher should sound f, the hoy must smitate him and say f If the hoy should proncunce the word "father," the teacher should puter the word and the hoy should imitate him. The teacher should pronounce each word and letter slowly, distinctly and firmly

Jeopersen says that Walter is "emphatically of the opinion that in class instruction phonetical transcription is much to be preferred to purely oral instruction because the latter wastes an encurous amount of time, and the teacher cannot feel nearly so sare that the whole class is able to follow? Indeed Mr Walter's arguments are strong and resounthle. Blost in not the teaching of one script and the displacing of it by suchter in a short time likely to confines the hittle boys? Who seetled as yet one acript as being the correctest or the simplest? Th best thing will be for us to keep our existing spelling, as long as all literature is writte. in that spelling, whetever may be its defect and to make the hoys learn the sounds by mere practice. The teacher in India migh with very great and special adventage no the vernacular sounds for comparison and impressiveness. This method of teaching pronunciat on 18, in my opinion, certainly more casy and more useful than the adoption of learned scripts and phonetro explanation of sounds Later on when the boy has to write down letters, after a good training in sounds and in conversation, he might be taught the lappostic values of the letters through actual words

Jesperson mentions four ways in which it is possible to communicate the material of a foreign language to pupils teacher may not let the hoys use saf writing at all, but give them everything orally, (2) he may gire them the orthor graphy alone, (3) he may give them or the graphy and phonetical transcription | gether, (4) he may give the phorto, al transcription alone After considerated, & the four ways, Jesperson molines to theg but way and prefers "to let beginners bed is ployed only with phonetical transcription his hefore they pass on to seeing some time the words in their orthographical shape too " For my own part, I would prefer the first of these four ways in the first stage, the second way being adopted at a later stage At a atill later stage, the phonetic symbols may be learet by the boys with the historical reasons for the deviation between the orthodox enelling and the true pronunciation, The elaborate rules that are given for the teaching of Phonetics to young children, by Mr.

cYates, Mr. Nelson Fraser and othere may well be learnt with advantage by the teacher and not by the hoy.

Method continued .- To take up the thread of my essay, the hoy should first be taught to express ideas in sentences, then to break them ap into words and sounds. Boys may also be asked to break up the sentences logically and led to a knowledge of the grammatical construction of the sentences, Through a comparison of sounds with symbols, they may slowly be led to learn the written forms. When boys are able to wield the foreign language in simple forms, they might be engaged in light conversations. which should be so gredusted as to train the boy in the interpretation and construction of sentences. Oral composition and decomposition of ideas might be taught by means of praduated lessons. In all this course of instruction, the concentric plan should be adopted and the lessone should slowly propress and widen out the sphere of the boy's knowledge. At this stage of teaching the . foreign language, care should he taken to see that the hoy is given no lesson to prepare at home. He should do all the work in the presence of and under the guidance of the teacher. Every day the boy should he made to feel his progress consciously. Lessons, conversations, composition should all be conducted orally at the first stage. The boye should slowly learn to write the words and sentences and to frame sentences to express familiar ideas. Cars should be taken to see that boye do not get word pictures into their heads and that hoys do not mutter isolated words. In this respect, I am sorry that the first lessons in Mr. Yates's book are not quite suited for teaching according to this method. Care should also be taken to see that conversation lessons are not indulged in to an undue extent, but that composition and reflection on the port of boys are encouraged at overy point.

(6) Grammar .- Through conversation and composition, grammatical relationships abould be taught. Boys need not he told of the rules. Grammatical relationships in the vernacelar languages may be used for comparison whonever and wherever practicable and useful. The lessone given in the heautiful books of Mr. Yates and of Mr. Nelson Freser indicate clearly the way in which grammar might be taught without much conscione effort on the part of the hoy to manufacture sentences to answer the needs of grammatical rules and exceptions to rules and exceptions to exceptions. Jesperson says, "Theoretical grammar ought not to be taken no too early. and when it is taken up it is not well to do it in such a way that the pupil is given readymade paradigms and rules. After the manner of Speucer's "Inventional Geometry." where the papil is all the way through led to find out the propositions and proofs for himself, we ought to get an Inventional Grammar." That is, grammar should he tanght inductively and not deductively, as it has bitherto been done. If the boy is sufficiently advanced, he might be allowed to use a grammar book. But then, as Jespersen gays, "to go through the grammar from one end to the other, a section at a time. ongbt not to be undertaken until most of the phenomena have been treated in connection with the reading," Even when grammar is so taught at a later stage, I atroughy believe that the text-book or at any rate a connected passage in a Reading Book should be made the medium of instruction in grammar. At this stage also, when the boy

is aufficiently advanced, standard books in prose and poetry or lengthy extracts from these should be placed in the hands of the hove, and they should be trained to annecuste the thought and to unitate the style of the authors Even up to the Matriculation standard now, boys read only broken process of non literary scraps mostly, so that they do not form any style and do not even approcuate atvla.

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Conclusion -I believe I have ould enough But before closing my essay, I feel bound to make meetico of oce or two things in particular, for the way in which we are disposed towards these points settles all the manner in which any successful work can be done enther in the teaching of Eeglish or in this teaching of any other language or subject.

(i) The bogey of examinations - hirstly, I should state that the one thing which stands in the way of any successful work in the school room is the boger of examination. No method can be adopted with prospects of success or with efficiency as long as we are airaid of examinations. I feel that no teacher can use the direct method or any good method of teaching English, unless he is free from that constant fear of examination, which makes bum adapt his work to a fixed and crowded curriculum from time to time At least to the early years of teaching Euglish, the teacher should entirely reglect examinations and should teach children with the sole aum of making them talk fluently and correctly. read with ease and thoroughness, and write in next, sample and correct Logieb The teacher should make his every day's lesson. an examination of the previous knowledge of the child, and a clear, slow and sure presentation of new matter closely allied to the old, however hitle that is new he may be able to

present in a day The teacher should see that whatever is done by the boy is thorough and abould not akin over things merely to see the end

(a) The Teacher has duties - How can a teacher do this boosally and satisfactorily nuless the teacher bimself is a perfect undividual, conscious of his duty and consisttroops so the discharge of his duty? Ore objection that is brought forward against the adoption of all povel departures in teaching any ambject, not merely English, is that the teacher is not always what he ought to be The teacher must be a man of vast resources, ready wit, and quick aympathy with children in all the situations in which they may be found The teacher should, above all, be a man of character, for nothing infinences character like character

N K. VENKATESAN.

TEACHERS IN COUNCIL Athor PROBLEM OF THE PRIMERY SCHOOL OF AND

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REPORT OF THE PRIMARY SCHOOL

To secure that equality of opportunity they must first conceptrate their attention on the Primary schools and reform their conditions throughout, for until that teak was accomplished there could be fittle or no hope of solid adnestional progress Many ardent edocationists whose sincerify and zeal were undeciable, took ers for granted that the primary school system Bre to Return very well and focused their minds thrown working very well and focused their minds foreign condary and University education But foreign condary and University education But foreign conditions was not on a sound hasis, and that the would be entil its administration was so home led that the conditions in the primery presenced of as good as those inhe econdary teacher | Every that had been achieved the rest to feel his pre woold he comparatively easy.

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Secondary schools Even in the matter of school buildings the spirit of class prejudice stepped to The Secondary echnol children must according to the Government regulations, have more airspace than Primary school brothers and eisters. though the home surroundings of the latter to many cases would seem to call for a complete reversal of the pusition Of more importance than the buildings were the arrangements for carrying on the practical educational work and here the disparity between the two classes of schools was even more pronounced and mure productive of evil results. The pupile in the Secondary echools must be taught in every case by folly qualified teachers, hot little mure than half of the staff of the Primary schools coold be en described Elaborate and in many respects admirable regulations had been drawn up for the training of Primary school teachers. Yet having obtained its qualified precitioners the State rbstructed their ophers of usefulness. They were forbidden to cross the secred portals of the Secondary school hot a host of unqualified or partially quelified men and women was sent to compete with them in the Primary schools Asy attempt to atcreptype the grade of ancertificated teachers was not only to be deprecated but deserved the most haspering condemnation from those who clasmed to be edonationists. Uncertificated teachers had been allowed and encouraged to remain unqualified and their continuence to the Permery schools was one more proof that they were still very far from the idea of equality of apportunity for all in education. The State which had led them that blind alley could not to fustion dismiss them, since time had in some measure given the experience which made for efficiency On the other hand, the interests of the children demanded that the grade should eventoally become estinct, and that in all future appointments only certificated Assistants should enont as offective members of the staff. The principle would than be astablished that both in Primary and Secondary schools fully qualified

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Secondary schools. Even in the matter of school buildings the spirit of class prejudies stepped in. The Secondary school children must according to the Government regulations, have more airspece then Primery school brothers and eistere, though the home surroundings of the latter in many cases would seem to call for a complete reversal of the position. Of more importance than the buildings were the arrangements for carrying on the practical educational work and here the disperity between the two classes of schools was even more pronounced and more productive of avil results. The pupils in the Secondary echools must be tought in every case · by fully qualified teachers, but little more than ball of the steff of the Primery schools could be so described. Elaborate and in meny respects admirable regulations had been drawn up for the training of Primary echool teachers. Yet beving obtained its qualified practitioners the State reetricted their sphere of assfalzess. They were forbidden to crose the ascred portals of the Secondary cohool but a bost of unquelified or partially qualified men and women was sent to compete with them in the Primery echools. Any attempt to etareotype the grade of nocertificated teachere was not only to be deprecated but deserved the most unspering condemnation from those who claimed to be educationists, 'Uncartificated teachers had been ellowed and econoraged to remain unqualified and their continuence in the Primary schools was one more proof that they were still very far from tha tdea of equality of opportunity for all in aducation. The State which had led them that blind alley could not in justica diamiss them, since time had in some measure given the experience which made for efficiency. On the other hand, the interests of the children demanded that the grade should aventually become extinct, and that in all future eppointments only certificated Assistante should count as effective members of the etaff. The principle would then be established that both in . Primary and Secondary echools fully qualified .

teachers only should be responsible for the work of educating. And end would thus be put muso and for ell to the employment of those mon descript nuchoressums known as supplementary teachers. Their existence was a netional disgrace and a further misolt to the workers whose children were condemned to these tender misrues. Their retroduction into the Primary schools could only be justified on the supportion that the pupils in those institutions were mirrhed with a perpetual bread of tofernority.

A STATEM OF "HUSTLING"

In the size of classes there was still a great gap between the worker end the plutocrat Thirty or 35 popule grouped for tasching were coondered a full olses in a Secondary school, but in the Primery school 60 was the recognized number, elthoogh no teacher, however capeble, could educate or attempt to develop the unders dual faculties of 60 obildreo So long se cleases of that size were possible so long woold the work of the Primary schools fell short of the ideal which should be the sim of all educationists. The efforts made by various education enthorities to realize the ideal of equality of opportunity were deserving of negradging commandation. but progress wee by no mesos general and, in many quarters the reactioneries were decidedly in the ascendent. Under the plan emphemetre elly designated as " making the classes fit the room," children were being subject to a system of the most brutal and cold blood " heatlung" They were drives out of the infects' school at the earliest possible age sed in all departments frequent reclassification had become the order of the day. If a child needed 12 months' tram 10g in a certain class, and in order to " make the classes fit the room" received noly six, or three or less the result was a foregoes conclusion Children's lives were becoming a burden and their future ruined by that system. Were teachers free from blems? It was true that they had protested against the system and their protests

had been ignored. But unless they did something more these protest the plee of compulsion would not avail them very much in the day of reckning. If they countred at the ruin of the childree, they mest accept the responsibility or such commission. They could await with confidence the verdict of the nation on the teachers or the organizations who refused to sacrifice the child to the Moloch of the Parthing Rata.

RUGAL CONDITIONS.

Tribute must be paid to the ladies and gentlemen who served on the Education Committees of the administrative counties, for the spirit of class pregudice was more vigorous and more widespread in the constry then in the town There the child of the egricoltural leboors was in meoy quarters looked upon as a veritable Gibecoite, fit only to be a hewer of wood and drawer of water. They could not igoore the fact that in the country districts there was a section which detested the Act of 1870 and straved to make ade cational administration as difficult and mosalis factory as possible So tofinantiel wes this asction that whee, for exemple it wee proposed to put en end to the susquities of the half time eystem ste members had to be placeted by allowing the country child to lasva school n year hefore his town bruthers and sisters It was true that " beneficial employment" was insisted upoo as a condition of exampting, but experience in town and country slike had shown them what a fatally elastic phrase "hausficial employment" was The State hed a hed record with regard to the rural schools. Those schools were necessarily emall, but they contained children of all ages from five to 14, who had a right to the best training the State could provide, end to that and they must be noder the care of skilled teachers. The more isolated the home the greater was this need, but the Stets had so far takes exactly the opposite visw and had assetioned the appoint ment of unperfectly-qualified people as head teachers of very small schools. The continued existence of those uncertificated head teachers wat a scathing indictment of our clees yetem of education. The rural ereas simply swarmed with their interesting type of pedegogue, the supplementary teacher. The vagaries of some of them would be amasing if it were not for the tragedy in the heak-ground—the tragedy of highted child life, the estreation of latent powers, end, above ell, the last to the ustion involved in impoversished and insfiniest education.

EDUCATION IN THE WEST COUNTRY.

He feared that in eductional matters the West Country endly belied its glorious past. Great traditions cerried with them great responsibilities, and the country of Alfred and Danston should look to its educational leurels. If egriculture wee to he permanently revived, those sugaged on it must have their faculties developed. not narrowed, and their uberacters monided by the training which an intelligent teacher alone could give. That training should be as free to the labourer as to the fermer or his lendlord. A sound general education should be given, and then those who desired it should be ellowed the opportunity of finishing their course at se sgricultural college. So for as the West Country was concerned, he was confident that the local education Committees would welcome a popular demand for equality of opportunity. When they received the necessary support from public opinion it would not be long before the West Country would retrieve its lost reputation.

While some steas, like Lindsey and Radoor, stored their schools and received twice their local contribution from an appreciative and grateful State, they saw, so the other hand, entherities striving to keep their school efficient and region told that they must not expect from the Luperial revenue more than one-third of what had elready been expended from the rates. Such mathods would disprace sven the philosophers of Lupeta or the Wite Mun of Gottlam end now that

whispers of coming reforms were rife they must insist that the first step should be to deal with Liedzey sod Radnor sud their imitstors according to their deserts, sud reverd other enthorities in propurtion to their good works and their ideals. Beary edecationist should make the improved staffing of the Primary schools the first object of increased Government grants. When that hed been accomplished the problem of the further development of Secondary, Technical, sed Tuiversity education could be faced with a surer prospect if access.

FREE SECONDARY EDUCATION.

Fees in the Secondary schools did not make those institutions self-supporting, but they erected an effectual barrier to the higher education of the worker's children. The ideal of Victor Hugo should become an accomplished fect in our country -" free and nompulsory Primery education for all free Secondary education for all who had the shility and the desire." The time had come to cease talking of the ladder from the Primery school to the University. The welfare of the netion demended not a ladder, but e broed, firm and well-laid highway elong which the poorest might travel if they possessed tha ability. The problem of University education presented e slightly different aspect. The great democratin University of England was being assailed by the forces of reaction. The classes having fastened their grip up Oxford and Cambridge, were now casting gready eyes no Loodon. Its external degrees were an eyesore to them and they demanded their shalition, to make London even as her sisters—the preserve of the wealthy and those of high degree. Lord Haldane had promised them great educational reforms, and the democracy relied on him to see that the external degree of London remained ontil the highway to the Universities was an accomplished fact.

The Conference received deputations from Teachers' Associations in Germeny, Holland, Belgium, Scotland, and Irsland, from the Cooperative Union, and from the Teachers' Guid.
A latter was read from Sir George Kekewich,
the only Hoo. Member of the Union, regretting
his mainly to attack, and say this, as altrough
all his official life so one his bast was with the
teachers and the children. In the effections a
private season of the Conference was half

LORD HALDANE ON EDUCATION.

Lord Heldena addressed a special esting of the Coofsrence of the Netional Union of Teachers at Westoo Super Mers, on Merch, 25—

LGAO HALDANA'S SPERCH

Lord Heldeno, who was very warmly received said that when he was at the War Office he tried to learn by putting himself in the closest contact he could with the soldiers. He now wanted to follow his old precises and get note the closest contact with the teachers Haring read the president al address, he found himself on many points in close agreement with it The President had done well to call attention to the state in which our Elementary schools were to day an many parts of the monetry The public had not est realized how backward and how apparently honsless some of these Elementary schools ware, perticularly where there were single-school areas He did not believe that they could treet the problem of alementary education or undertake the reforms which were necessary without deal ing with problem of education as a whole, and with secondary education, therefore, at the same

Then had been rumours that he was about to confold the details of the plus which the Gorenomust had feshioned. There ware two very good reasons why that could not be The first was that they were all working nuber the Insiderably of the responsible Minister whose dary is was to deal with those questions, and wha slove could deal with them as exvestions and a hillygrose that problam with an exvestions and a hillygrose that were beyond prace. He washed to add that has shall were working with him to the same spirit. Nothing could be more thorough than the way, no which the Board of Education were throwned themselves note this greet problem. Therefore the sourcement must come from the President of the Board of Education, so far as details were concerned.

A COMMITTER OF THE CABINAT,

There was another reason why they could not come even from him, just yet, Since the hegin.1 meg of December, a powerful committee of the Cebinot had been engaged on that problem in consultation with orperts. There had been site, tiog on it Lord Crawo, and the man without whom they could hardly get one step along-he meant the Chancellor of the Exchaquar There were also Mr Runmman and Mr Arthur Acland, who had thrown himself heart and soul into the enhact. With those geotlomen and with the eaperts they were busily at work but they did not intend to produce their scheme notil they were sore of it and until it was completely ready, While he did not think it would be long before they produce plans, they did not intend to produce these place notil thay knew axactly whore they stood.

But there were some things involved in the automoments which was made in the King a Speech that their task was the development of utstonal system of education on which he could well speak. Whet he was should say represented his own views, but he would not refer to them unless he was treading on fairly safe ground

THE NAME FOR DRIVING FORCE

They required driving force from the nation because the problem of edication was in very large part e problem of many. It had been the fashion to critician the Board of Education, but, baving looked note it, his merviwas that the Board of Education had been ablo to do so much with inadequate means. It was

gratified with what Mr. Dakers had said about the splendid work which had been done by some of the local education authorities without putting heavy borden on the rates, for the assistance which they had from the nation had been assistauce which up to now had been inadequate to the magnitude of the task which was put epon them. It was a task which necessiteted that they should have the mind of the nation at their backs, and have that enthusiasm without which the problem of finding ways and means was one they could never solve. Why was there that apathy about this tremendous feature of our national life? If they did not keep abreest in the training of the national mind with those other countries which were organizing their education systems end which in meny respects were our enperiors. it was inevitable that in these days, when science and knowledge were the conditions of all encossaindostrial end generally, they would fell behind in the race. It was a question of national safety, and nothing else, with which they were dealing His observation of political life had been that enthusiasm came like the wind hy fits and starts, and that what they had to do wee, when they got the enthosiasm, to make the most of their opportunity. Before 1870 there was real enthesiasm about education. There were Huxley, Matthew Arnold, and William Edward Forster. They did a great deal, and they took the larger view, het their energies were exhausted by diveree circomstances before they could accomplish more then helf their task. The enthusiasm which passed the Act of 1870 frittered itself away in a great religious controversy, which eprang up when they were dealing with education. They aught to not education first, and then make their arrangements for meeting the feelings of those who had atrong religious convictions, which must be respected and for which provision must · be made.

Between 1870 and 1879 the period was not barren but nothing very great appeared. In 1869 XIX

there was a new movement. Wales was the pioneer, and the Welsh Intermediate Education Act set an example to the rest of the world. At that time secondary education was not so much in men's three hts as technical education. People had begen to get alarmed about their industries. He was sometimes very much concerned about, onriedustries when he thought of the backwardness of our educational system, but they did not live by bread alone and they would not get even a good technical edecation system unless they put it on a broad foundation of national education. The Act of 1889 did something and the whisky money which came in 1890 did a good deal hot after that the enthosiesm of the pation ecemed to have avaporated. There were wise men and women who said that e step forward must be taken, and authorities constituted in Eogland which could deal with the whole prohlem comewhat in the fashion it had been dealt with in Weles. The Bill of 1896 wee a notable attempt of that kind, but that Bill feiled and other Bills failed because there was not driving power habind them and because the House of Commons which was a mirror of the feeling in the country did not reflect the enthusiasm which they must have if they were to maka progress.

A FALSE VIEW OF SECONDARY EDUCATION.

If the Education Act of 1902 had followed ont the ambitions of its authors, he believed it would have established large authorities charged with looking after Elementery and Secondary education, and Secondary education was not, as a great many people thought, another kind of education intended for a notion had different 'social class. That iefficted a crock jujustice upon popils and upon teachers alike. They had got to hrank down the notion that secondary education was anything more than a successive stage in stementary education. But, in spite of all the difficulties it was really remerkable the progress

which had been made to the last few years with the combined efforts of the Board of Education. the local authorities and thu teachers. The number of children to average attendance in the public elementery schools in 1902 was 4 890,000 In 1912 at wen 5.357.000 There were in 1962. 67.768 certificated teachers. For the year 1912 the number was 103,513-e notable edvance The number of children to each adult teacher had fallon from 40 to 33 and that poroted to thu fact that people were begroning to realize that the teacher could not handle more than a limited number of pupils. The number of State aided secondary schools in 1902 was only 272 To-day it was 885 The number of pupils in the State aided schools in 1902 was 34 200. This year the number was 151 000. The number of popula from elementary echoole holding echolerships and horseries from public fonds in England and Walse to 1902 was 0,500 It had now risen to 49,120 The expenditore from public funda on scholerships was only £80,000 in 1902 To-day it was £400,000 The number of stodents et technical and evening echools on whom grant was paid to 1903-4 was 469,080 To-day it was 628,181 The number in day technical classes end technical institutions was only 1,507 in 1903 4. To-day it was 21,082

A NATIONAL STATEM OF EDUCATION

Those figures meant that the breren had been siturnog, and that had resched a siage in which in the national interests a national system of education was absolutely required. People compliand that it was a range word, that it was only an idea, but if they could get the idea couly an idea, but if they could get the idea coulsy into the poblic mind he had intite doubt that they would achieve their object. A unional system of education would course a greas many things. It would ensure that our workman as the countries, and it would do great dark to break down the great hose of dimercation that there was between the man who worked with his

hands and the man who worked with his head The real department, was the school toucher. Lat him loose and he would break down the barriers which separated mass from class. As part of e prest democratio movement e true system of national aducation was vita! But it was for the eake of the things of the spirit that they required that broad foundation of knowledge and culture which was the making of the people that more than for anything else that he stood before them as a missionary in e great cause, the caose of the establishment of a true system on education The State had a deep and direct interest in seeing that its people were edocated. just as it had in seeing that they were healthy A national system must take occorrence of all the means by which edocation was provided in a country like this. The highest meens, the lowest means, the University, the Secondary and the Elementary school-they most all he fitted into their place in one system More than that, the manning of edocation most he wider then that they had been familiar with They were learning that not only the brain but the eye and the ear end the hand could be the meens of training the mind and moolding the obseractor They must get new views from studying what was being done elsewhere, to contionation classes, in what could be done for children while they were young, in second to their health, to sesson to their well being, in looking to the life of the future generation an all its espects. That point was assential to e national system. That did not mean naccessfully that the State most be bureaucratic. They had always been strong to this country on the notion of devolving on local notherstres the hostness of carrying out Local Government as much as they could, and be hoped they could not cease to have it, because without it they could not have that local enthusiasm which did so much beyond what the law could give. A system of that sort need not be a horeaccratic system. The most serious part of that work rested, and always must rest, with the teachers. Until they got a high standard of efficiency among their teachers they could not get their national system up to its praper level. Of course that meant a great deal of expanditure, bot it was not only for the teachers that money was required. It was required for holldings and for all sorts of things they did not possess et present, and without which they could not make their organization a real one.

ORGANIZATION FROM THE UNIVERSITY. They must organize from the top. He wanted to see the University idea, which was a very bigh ides, everywhere present. He wanted to see it in the mind of the elementary teacher, and he wanted to see an understanding of the mind of the elementary teacher in the University. They could not pot primary education on a proper footing without taking into account the next stage, and they could not put secondary education on a proper footing without considering that University aducation came after. It might he that very few went from the Primery to the Secondary school and, still fewer to the University; but still the great ideas ought to parmente from the top, and they could not separate the one from the other in fashionics out their organization. It was essential that they should deal with the whole of education simulteneously. He attached great importance to the Teachers' Registration Conncil because he saw in it the foundation a true esprit de corpe emung teachers as a body. It was through that Conneil that they would get co-operation and mutual understanding among the teachers which was necessary if the right pupil was to be picked out and selected for ascendary education. The appointment of new Assistant Inspectors with eight years' experience of elementary teaching meent that people had begun to realize more and more that it was not through shetract ideas alone that they could deal with the question of adnestion. The four years' course et present extended to only about a thousand students.

Still it meant that 1,000 teachers were taking their training in a University atmosphere. If University education had been carped at and had been unpopular, it was because Universities had been so few and so inaccessible that people had not been able to get the benefit of them generally. And yet the Universities and the facilities for getting to them were improving rapidly. Ten years ago there were only six teaching Univereities, but since then five more had been estab. lished. That meant that there was a much greater access to the Universities than there was before. and much greater change of bringing them to bear on the training of the teacher. Potting optside Oxford and Cambridge, the number of students working in the day-time had doubled to the last ten years. The number of degrees obtained by students in England and Wales in 1911 was more than twice the number obtained in 1901. Presente ly the Universities would be made much more accessible atill, and the foor years' conrse was the beginning of a movement which he hopes would end by getting rid of the preartificated teacher. The four years' coorse not only means higher efficiency but higher ideas. There were thiogs they could not get ootside the atmosphere' of the University. They got there that larger outlook which enabled them to see things completely, to see them whole, with a knowledge and a grasp of principle which made technical details easy. More and more people were coming to realize that teaching was a business which required very careful training. Mr. Dakers, in his address on the previous day, made a playful allasion to his connexion with external students. He (Lord Haldans) would never admit that an external student was the same thing as an internal sindent. The internal student had . matured his mind in the University atmosphere. The external student was working hard, but only for the external examination, and some people with much less aptitude theo their neighbours in what was hest in the realities of education had .

much greater aptitude in passing examinations. Therefore the external examination was not e real test of learning The only real test of learning oo which he would like to give e degree exclusively was the record of the sindent during his time at the University Three years or two years spect within the walls of a University were worth acything At the University the teachers and the tanght were nearly on a level They were dealing with great problems they were everching after truths in which there was no certainly, and it was that common quest which gave the higher relation between teacher and taught that they could never get quite as well outside a University It was not only that, but it was the association of the students and the feel ug that they belonged to the world of learn ing He wented that for the teachers, and it coold not be got merely by taking degrees with external examinatinos, but they had not yet got the opportunity for all the teachers to live in that atmosphere, sithough the four years' course was a start on that new path. Until they got the fall opportunities for the teachers he did not think that it would be right to take away the chances of external degree.

THE POSITION OF SECONDARY TEACHERS

Turning to the position of the secondary teacher and of secondary education in this country. Lord Haldane said that the quentity of eccondary education properly organized and recognised by the State in this country was simost negligible. No doubt there had been improvements and there were some places where it was very good indeed, but in the more remote end less colightened parts it was herdly an exaggeration to say that secondary education scorcely existed It was the sesence of a system of national education that their secondary system should be enormously straugtheoed. The German education system had its wesknesses. He doubted whether it was accessible to the democracy, as ours was, but it had one source of immense

etrength-its pivot was the secondary echool Indeed, the secondary school had made their educational system a numbed and a very powerful one. It was most unfortunate that so many children were withdrawn from the teacher on eccuses that were altogether unadequate on the plea that there was a beneficial occupation that they could usefully follow it might be right in certain esses to let children away from the schools before they were 14 but only no consideration that they began at once in some other kind of school It was all very well to talk of an edocational ladder but it was only very few who could go on to secondary education properly so caffed and still fawer on to the University Let them make provision for that excelled minority, hat let them remember the great majority, for whom they had to do something and whose educational career was all but short when it ended even at 14

There was acother case. Their roral districtsparticolorly required come kind of treatment. He did not know of any apectacle more than that the education which the child of the sgn cultural laborare could hope for. That was oce of the great points in the lead question to which the Chancellor of the Encherger would give his close attention. Guilt they had done the had fature generation of sgricoltinal laborary was not rue above the level at which, in secreg to day, and it was vital in the vita he life of the that they should asset the specie. That point

The Religious system That did

He heard the other, hat the State must be the rehignen questioned always been strong in not meet that theyelton of devolving on local victions or to agrees of carrying out Local mean was that theyelton closues to have it, because building profar anchoold out have that local e-spirit of tolernyidd so much beyond what the lower place of a "prism of that acts need not of many of the strain. The most serious part does not consider the strain of the s things that they are recognized could not continne. For instance, in the single school areas the echools were mainly Church schools What mattered was that they were very had schools In many cases they were run net for the henefit of education, but breause there bad been an eld thing there and people had gone on with if They would never get matters right if they selected a head teacher because he played the organ well. The single school areas presented a very pressing problem and they had got to see to it that at the head of each school there was a good teacher If they succeeded they would succeed by moving the people of this country to give maney out of their national resources. The drain on the paople was a heavy drain but the increase in the national income had been tremendous within the last generation, and they could well afford to do this. It was not a matter in which they really had an option, for nuless they took this great step forward, they would be false in the generations which were to come

LORD HALDANE AND SECON-DARY EDUCATION

A NATIONAL PROSLEM.

Lord Haldane attended on Saturday, March 29th, a joint mosting of Secondary and Technical Teachers, hald in the Great Hall of the University of Londos. On this occasion, however, the Lord Chaecellor was a listeeer for the greoter part of the time, during which the views of the Secondary and Technical tisecters on educational reform were laid before him After two Resolutions had been adopted, setting out the teachers' desires, Lord Haldane delivered a short speech in which he dealt with the need for reform in Secondary adocation. The Headmaster of Euro preaded over a large gathering.

The Chairman said that Lord Haldsta's pressore was an indication of the intention of the fovernment not to proceed without first taking counsel of the teaching profession. They had no reacon to doebt that the State was willing and undeed anyment to allow reaconship freedom, and they trusted that liberality and careful consuderation would be the mark of any regalations which might now be contempted. Referring to the question of a peusion often for excoordary teachers he send that the presence of the Raadmaster of Harrow and a latter he had received from the Headmaster of Winchester culcivated that those who represented larger pablic achoose no longer fell it possible to stand afood from that excession.

Canon Swallow (Chairman of the Iecorporated Association of Handmasters) moved a Resolution welcoming the aunoeocement that the Goverement proposed in deal in the near foture with the question of edocatioe , hoping that the State would have to the school all reasonable freedom m anch matters as time-table, curriculum and careful edecational experiments, and, with the nhyect of attracting into the schools a sufficient supply of able and efficient teachers, orging that the increase of salaries and provision of an adequate pansion schame should be a first charge upon any further grants for secondary and technical edocation. He did not think that there was much fear of the freedom of the Secondary schools being impaired for he took it that the Government would remove direct coefrol from the local authorities, which were, with very few esceptions, disposed to find for their achools good Headmanters, and leave them free to work nut the salvation of the school At present experiments were stopped for want of meens, and onless the country was prepared to epend six or eeven millions a year more upon education thay goold not hope to make it worthy of the nation

Mr. R. F. Cholmeley (Owee's School, felington), who seconded the Resolution, and that one of the most favourable symptoms is the educational activity of the Government was that manifestation of desire to know what the teachers thought.

Mr. P Gelaman (Chairman of the Sasociation of Teachers in Technical Institutions) supported

the Resolution, who have carried unanamously A second Resolution was site about 64 represents the opinion that no poision scheme for scondary and technical teachers in Legisird and Wales could be considered adequate which did not provide bestifts approximately equal to those now secured to Southsi teachers

A HOPEPUL OUTLOOK.

Mr. Arthur Acland said that since the converestions he had had doring the estume with the Chancellor of the Fxchequer and the Lord Chancellor he had begun to hope that at leat a ustionel policy of education was meight. They who were interested in secondary education wern very timid folk. They were very much afraid of State inteference, What they wanted was lote of money and as hitle 'red tape" as possible The proper corrective to too much State inter ference was a united teaching profession taking constant counsel with the Board of Education It was early yet to speak of what they haved the Teachers' Registration Council would do but it was a splended there to find in the same room for the first time under an Order in Council 44 persons representing the whole of the tearbing profession of this country

LORD HALDANES SPEECH.

Lord Haldens and that he was one of a band who wers on a voyage of datovery, and who would be know all they could before they committed themselves to details. It was plant that the Scoondery teacher was restly underpud but that was not true of him slone. Before they got such graveroce reclared thay must relevent the Britthy holls on their cases.

"There was a notion in the head of the man in the street that secondary adjustion was a laxery with which he need not fromble himself, and so long as that notion was in his head it would be very difficult to get him to pay may tarse for secondary adocation. Balif they could hring home to him that the state of the decadion question in this country was athing.

moment a peril to the nation and that it was a question of national safety with which they were dealing, then he would take a larger view It wee not that we were not coing on Magnificent work was being done and the London County Council had set a fine example. The Government had done a certain amount, but there was not progress sufficient to make up the leaway. They were behind the level which had been reached by several of their competitors, a level which would put them in peril. They must not think that he wished to been the case for education and expenselly for higher aducation on mere grounds of materialism, but they could not descripts national progress from the basis of knowledge aven when it came to the question of making money, and if the level of the national income was to be majotsined, if their industrial pre-emissince was to stand, he said deliberately put its educational arstem in order"

that the ustion would have to make an effort to Broadly speaking, the number of pupils who left alementary achools in each year was 600,000 and about one in 23 went on to some form of higher education, and about one in 48 had got e free place As a result the demand for secondary teachers was increasing and there was a threatened falling off in the number of teachers, because as they were not properly paid people did not mun the profession. They must not let secondary education be supersted and replated in the public mund from elementary education and from University education A great step forward had been anaugurated in the shape of the Teachers' Registration Council Our result of the gap between the elementary and the secondary echool was that some chappe must be made if the average boy or girl was to get the good of some form of higher aducation. It was not ecough that selected populs should go to the recondary school. They wanted to make some provision also for the average popule. That meant they would have to do s great deal in the way of broadening the conception of Elementary educa-

tion in rustice to Secondary education,

THE BURDEN OF THE UNIVERSITY

It was en old and narrow notion that it was only with books and abstract subjects that they could give higher edocation They were getting very much wider notions of education and they required them. Just as they had got to relieve the accordary school of a good daal of the borden on it because of the imperfections of the elementary achool, so they had got to relieve the University of bordene not upon it by the de ficiencies of the secondary schools. Reference had been made to the Intermediate examinations of the University being taken in the school The preliminary studies which were tested at 'be Intermediate exeminations coght to be taken in the eccondary school If they had a properly developed evetem of secondary education did they think medical stodent would have to wait for his general knowledge of chemistry and hotsny notel he went to the Unviernity? Did they thick that the Universities would be burdened as they were with giving instruction of a comparatively ordinery kied in the elements of methemetics, physics, chemistry, and other enhiects?

THE GERMAN EXAMPLE One reason why the Universities hed anffered was become we had never understood fully the eignificance in the educational system of accondary echool In Germany it had been different. The whole educational februs there rested upon the basis of the eccondary echool. The boy weet into the eccendery echool young end rememed there if he went through the foll coorse for about mos years, and at the end of the time he was an quelified that he went straight to the Univercity. There was no matriculation exeminetion, but the student had to preduce his entrance certificate showing that he had goes through the mill and been in the atmosphere of the secondary school. They had outgrown the period of the old fashioned examination. What they wanted was record, and he looked forward to the time when every body whn went to the Univerenty would have that record He beheved that the new foor years' ocores would be a great atimologia that direction. The time had not yet come when they could deprise the external etodent of his chance of getting an external degree. That would come when people real and that the esternal degree meant nothing comparable to the degree which was the hell mark of having lived in the atmosphere of the University Fducation was the greatest reform they could take in hand and appenditure on education was productive expenditure which they was e justified in making a sacrifice to incur

EDUCATION IN THE MAGAZINES (INDIAN)

Elementary Education.

In opening the first model Elementary School in Triplicane, His Excellency Lord Pentland spoke on the importance of Elementary Education from which we take the following -

If we look at the statistics of Elementary edu cation throughout the Presidency, we find that naturally enough from the facilities it affords, from its wealth, from the foundation and the endow ments which are established within its limits, Madras City stands first in the attendance of chil dren at Elementary Schools for I think there ere something like 243 recognised Elementary Schools within the Municipal limits and in these schools we find \$5,206 boys ettending and something over so noo girls You will not find I think, so large a number of guis comparatively ettending in any other part of the Presidency, and that I think is a subject for congratulation A great deal therefore has been done, but when we recollect that there are only 15 000 odd attending schools out of 38,000 that should be attending Elementary Schools in the City of Madras, we see what great need there is for such a huilding as is represented by the school Ynu have seen the premises, your have seen the class rooms, you have seen the play ground which, I think is an essential eddition to a school of this kind and I am sure there is not one of us that has not been glad to see the merry faces of the children and the cheerfulness with which they have taken part in the songs and exer cises that they have given before us. Depend upon it that there is an better thing that any of us can do to our children than a good education as on equipment for life. Therefore we cannot but take a warm personal toterest in an effort of this kind I think this occasion is for one ar two reasons more notable than the opening of an ordi nary school In the first place it indicates the nomion of the Corporation as to the importance of Elementary education, and as was wisely said elready this afternoon, if I may so characterise it, it is of the highest importance that to take part in the industries of this great city, to appreciate the improvements introduced by the Corporation itself there should be intelligent co-operation on the part of as future citizens hvery rupee that the Corporation spends in improvements will be enhanced by value if that expenditure is rightly appreciated as a benefit by those for whom it is intended. I feel certain that as time goes on, the educational efforts of the Corporation will be warmly approved.

the Resolution, which was curred manumosely A scoond Resolution was also adopted apressing the opinion that no pension eithers for accordary and technical teachers in England and Wales could be considered adequate which did not provide benefits approximately equal to those now secarcid to Societh teachers

A HOPSFUL OUTLOOK

Mr Arthur Acland said that since the conversetions he had had during the autumo with the Chancellor of the Exchequer and the Lord Chancellor he had begun to bope that at last a national policy of edecation was in night. They who were interested in accordary adecation were very timid folk. They were very much afraid of State inteference What they wanted was lots of money, and as little "red tape" as possible The preper corrective to too much State inter ference was a united teaching profession taking constant counsal with the Board of Education It was early yat to speak of what they hoped the Teachers' Registration Council would do but it was a aplended throw to find in the same room for the first time under an Order to Counse 44 persons representing the whole of the teaching profession of this country

LORD BALDANA & SPRECH.

Lord Haldane and that he was one of a band who were on a voyage of discovery, and who wented to know all they could before they committed thomselves to dated. It was plane that the Secondary teacher was really moderned bat that was not true of him alone. Before they got each generances refressed they most interest the British poblic to their case.

"There was a notion to the band of the man in the street that secondary education was a loxery with which he need not frouble himself, and as long as that notion was in his head it would be very difficult to get him to pay any taxes for accordary education. Bat if they could hring home to him that the state of the education question in this constry was atthis

moment a peril to the nation and that it was a question of national safety with which they were deafing, then he would take a larger view It was not that we were not going on Magnificent work was heing done and the London County Council had set a finn example. The Government had donn a certain amount, but there was not progress sefficient to make up the leaway. They were behind the layel which had been reached by several of their competitors, a level which would put them in peril. They must not think that he wished to been the case for education and sepecially for higher adocation on mero grounds of meterieliem, but they could not descents neisonal progress from the basis of knowledge even when it came to the question of making money . and if the level of the national moome was to be maintained, if their indestrial pre-emegance was to stand, he said deliberately that the nation woold have to make an effort to pat its educational system in order"

Broadly speaking, the number of pepils who feft plamentary schools in each year was 600,000 and about one 10 23 went on to some form of higher education , and about one in 48 had got a free place. As a resolt the demand for accondary teachers was increasing and there was a threatened fallsproff in the nember of teachers, because as they were not properly perd people did not jour the profession They mest not let secondary education be exparated and isolated in the public mind from nlemestery advication and from University education A great step forward had been snaughrated in the chaps of the Teachers' Regularation Council One result of the gap between the elementary and the secondary school was that some change must be made if the average boy or girl was to get the good of some form of higher education It was not enough that selected pupils should go to the secondary school They wanted to make some provision also for the average pupils. That meant they would have to do a great deal in the way of broadening the conception of Elementary education in quelice to Secondary education,

It is now realized that what are known as "economic laws are for the most part generalizations about the economic phenomena and the industrial structure of Europe, and that these generalizations do not necessarily hold good in this country The economic structure of England is different from that of India If you produced descriptions in the form of monographs of industries as they are conducted in India, you would be producing a kind of work which would take a most useful place among the economic books written at the present day If you go on in this way making enquires into details, your work would have real ut hty There is an institution which works on these lines in England-the London School of Economics Its members begin by making detailed enquires and taking down notes as to what is actually taking place in some industry of social group They form, e.r. a separate branch for studying Railways, another for atudying Banks Work of this kird done in India would be of extreme value to European students Professor Marshall has said in me We suspect, but do not know for certain that the present economic structure of India resembles the economic structure of England before the Industrial All that we have yet got is fragmen tary evidence. I finally suggest that in the course of your enquiries it would be interesting to find out the present condition of the descendants of classes who had formerly been enslaved. There is a quite interesting report on the subject of slavery in India The enquirers came out on behalf of the English liberators of slaves and were a nicked commission. But they gave a very favour able account of the condition of slaves in India as compared with those in Africa. It would be of interest to learn what had become of this class. and whether it had risen in the social and economic scale

The Teacher.

In the course of his valeductory address at the 231d annual meeting of the Teachers College Teachers Association, Saidapet, the Honble Mr Justice P R Sundara Iyer dwelt in the subject of the 'Teacher' He said :—

It is a tradition and practice that a teacher has to be satisfied with the feeling that he is performing a sacred task and take consolation in that fact for the absence of good emoliments. In India learn ing is never bariered for money and the teaching profession is placed above all pecuniary appraistances of the properties of the properties of the condition of teachers for the reason that ide is becoming more and more toot! A teacher should

be placed above want, because his cartacity for work will be diminished. I hope that the scheme for Provident Fund for teachers will be successfully carned through A teacher should realise that large wealth is not his goal. At the same time he must also realise that his responsibilities and the sphere of his duty are continually widening. The teacher is thought of as the person who would a put everything right and courses of lectures on sanitation agriculture and co-operation are deliver ed in the Teachers College A competition has been announced in this College in treating the subject of moral and religious instruction teacher is looked upon as the instrument for removing all grievances. A teacher is expected to see that the students are trained in a scientific attitude of mind to see that the treating is practical, and that he is also training the moral instincts, Young men should be so trained as they would be willing to change and adopt such modifications of existing things as might be demanded by the necessities of progress. It is often said that disci pline is becoming lax and that a student should be kept under strict discipline. But I am not con vinced that increasing strictness is necessary or beneficial A student from highest to the lowest class has very little to do anything on his own account Every hour of the student is absorbed in doing the work prescribed by the school suthors ties. What is required it not so much control of the student s act but is constant holding up of high There should not be too much of organisa tion and too much of discipline in the matter of education Students should be disciplined in such a way as they would think that they were bound to act rightly without rules More freedom should he given to teachers and probably that requires important changes in the manner of inspection in the Grant in Aid Code Students should be trained in the habit of studying things in the concrete and should be made to take an interest in the external world They should acquire the habit of methodi cal and persistent thinking and not be satisfied with their quickness and subtlety of thought Instruction should also be given to students on the duties of critizenship Teaching profession is the most noble and sacred profession

Education in India.

At the 23rd anniversary and prize-distribution of the Madrix College beld on the 19th instant in the College Hall, the Chairman the Hon ble Mr T V Sestag, in Arge, traced the history of the educational pol cy in this country from the very earliest times, re., 1835. He said —As soon as the British Government was firmly established in

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of educating And end would thus be put once and for all to the employment of those non descript anachronous known as supplementary teachers. Their existence is a national diagrace and a further insult to the workers whose children are commend to these tender mercies. Their introduction into the Primary schools could only be justified on the supposition that pupils in those institutions are marked with a perpetual brand or inferentiv

Woodrow Wilson.

The following is an abstract of the career of Woodrow Wilson, the President of the United States, by Reginald R Buckley

Woodrow Wilson was the son of the Rev I R Wilson, a Presbyterian pastor of Wilmington, North Carolina As a school boy he was manly, but at the same time a keen worker. Neither a awotter nor a mere athletic implement, Wilson was popular He was fond of his home and his people Before Woodrow Wilson was eighteen he was sent to Davidson College but a year later (1874) he entered Princeton the history of which goes back to 1746 There he read hard and placed baseball He rejoiced in oratory, especially in the speeches of Edmund Burke Moving on to the University of Virginia Law School he won the Jefferson Medal for oratory He practised as a lawyer, but found that 'the law has ceased to be profession, and has become a trade ' When Mr Wilson had taken his degrees he became Professor of Political Science at Bryn Mawr He married Ellen Louise Axon, a beautiful lady from Savannah of Cavaher extraction They have three daughters Margaret Wilson is a soprano singer, training in New York Her aister, Jessie is a painter and social worker, and Eleanor, who also is studying painting 'The mother has a reputation as housewife and cook

In 1892, Woodton Widon became Professor of Junpundence and Political Economy at Pracecton-He Izamed shorthand, and in every possible way qualified humelf as an erganser. In 1800 became Freudent Instead of dehreemy fectures became Freudent Instead of dehreemy fectures tudents, and even tired in modify the clubs patent (an exageration of our own collegate and non collegate method)

In 1910 he resigned leaving Pinneston pros perous and of greater importance and influence than ever before. Lake all big men, bis aims had far exceeded the results. But much had been done, this personal record was a hierary one. "Division and Re-Umon' his work on the Civil Wats, speared in 1833. The same year gase to the

world "An Old Master and other Political Essaya" The Old Master was not Rembrandt but Adam Smith, of the Wealth of Nations." In 1896 appeared a volume of essays entitled Mere Literature. That title was characteristic of the man

Word systeming he valued as a means to an end. In is "Goorge Washington" which has been revised quite Bielij, the new President deals with soonal and domestic qualities of the man. The famous "History of the Ammican People" appeared in join in order to understand the value of his appointment, one must look at his Buest multi-cation. "The New Precedom."

THE UNIVERSITIES

MADRAS UNIVERSITY

M A DEGREE BRAMINATION, 1913 Branch II-A (Physical Sciance)

The following are the names of the successful

andonates :-Kappana Airangar, D. Parthaearsthi, III Class. Manukham, Jonathan P., II Class. Sistatamakrushna Airat, Y., II Class. Sobramanyan P. E., I Class.

Venkata Rau Ankola, I Chass Visvanatha Aiyar, Vallsyannr N., III Class Yagnesyaran, P. III Clasa

Branch III-C (Zoology)
Channappaiya, Haleand III ClassDevancean, David W., II Class
Kerunakaran Nayar, Kolashi, Ili Class

Moses, S Tangaiya, III Class,
Branch V (Hiatory)
Babu Rao, Lollipara G., II Class
Jagadesao, S., II Class
Josoph, Panjikran O., III Class
Josoph, Panjikran O., III Class
Kaldullab, P., III Class
Nikkantan, A., I Class
Raman Nambesan Tekkepat, III Class

Raman Nambusan Tekkepat, III Class Seeban, T. B., III Class. Sarkatanakrahna Ban, Kara, III Class. Sristrasachara, Chidambaram S., II Class. Sabbuya, N. R., III Class. Vookkataraya Aiyar, Subrahmanya, III Class.

CALCUTTA UNIVERSITY

University Institute.

The annual meeting end prize-distribution of the Calcutta University Institute was held at the plantitute Hall, College Square, His Excellency it

Lord Cormichael presided, and there was a large attendence.

On the motion of the Hos. Mr. J. G. Camming. seconded by Sir Gurudas Banerjee, the annual teport for 1912 was edopted. .

Hie Excellency gave un interesting eneech in the course of which he said:-I know how desnted you etudente ere to your Chencellor. I knnw what an interest our Chancellor takes in all connected with the University end especially in all that goes to promote the welfere and happiness of you students, I know how sorry you all were that His Excellency Lord Hardings could not preside et your last Consocation, ea we had boned he would. We know the resaon, we deplore the reason, but it is not to that I want to refer. I went to cay that I believe that you are all proud nt your Chancellor, at the way in which he met the evil lortuce which came to bim, of the way in which he has done his work, fearlessly end uncomplainingly ever since. You were, I am enre, proud when you read the speech which he made et the opening of his Legisletive Council in Delhi. now almost to-day 2 months are when you read how he clearly declared that his faith in India remains unsbaken. Gentlemen, it lies with you the etudents of Calcutta University as much es with anyone to show to the world that your Chencellor is justified in his faith. What you think and what you feel must affect the feeling of all Bengal, and we believe that what Bengal feels and thinks must effect ell fodra,

A lecture. Under the apspice of the Calcutte University Institute Prof. Radhakumad Mukerice, M.s., r.n.s., read a paper on "The lundsmental noity of India" on the 31st ultimo. Sie Gurudass Bauerjee

presided. Dr. Bruhl eppointed Registrar.

The appointment, recently announced, of Dr. G. Thibaut as the first Regius Professor of History at the Calcutta University, caused a vacancy to the position of Registrar, which Dr. Thibaut bas held for many years. About a year ago, Dr. Thibaut was given a five years' extension of his eppointment as Registrar, but he could not continue to hold this office or well as the Regius Professorship, and the Syndicate offered the Registrarehip to Ur. P. Brutil, who had recently retired after a long period of service as Professor, and no several occasions acting Principal of the Sibpur Engineering College. Dr. Bruhl did a great deal of work in connection with the organization of the Physics Laboratory and the Minerological and Geological Museums at the bibliar College; and it is understood that he will be entrusted with the organising nf the Palet Science Institute from the endowment placed at the disposal of the University authorities by Sir Torok Nath Palit.

University Lecturers. At a meeting of the Senate of the Calcutta University, the Seuste accepting the recommenda-

tion of the Syndicate, resolved that Dr. P. C. Matter, M.A., Ph.D., be appointed University Lecturer in Chemistry, and Professor R. N. Grichrist, M.A., as University Lecturer on Political Economy and Political Philosophy for the Session 1913-14 to deliver a course of lectures on the comparative study of Social Institutions.

Ananda Mohan College.

In addition to the sililation already granted, the Ananda Mohan College was further affiliated to the B.A. Pass Standard in the following subjects with effect from the commencement of the ensulog Session :- English, History, Philosophy, Sanskrit, Persien and Vernecular Composition,

Lecture by Dr. J. C. Bose. An interesting and instructive discourse on "Electric Response" was delivered by Professor J. C. Bose in the hell of the Calcutta University Inetitute. The Hoo'ble Mr. P. C. Lyon presided, end the hell wes crowded.

PUNJAB UNIVERSITY.

Lectures.

Mr. Gordon Sanderson, of the Archmological Survey of Indie, delisered a course of eix lectures in the Daiveresty Hall, Labore, commencing an Tuesday, the 25th March and terminating on Monday, the 31st. The first lecture was introductory. The second and accoreding ones were on the following subjects :- Architecture of Khilis ood Taghlak dynasties; Afghan Architecture : Eerly Moghal Architecture : Middle Moghal Architecture, and late Moghal Architecture. The enbiects are important. But the lectures could have incremed their value if he had elso included early Iliadu Architecture.

ALLAHABAD UNIVERSITY.

Mr. E. F. Harris, the Principal of the Ajmer Garerament College, has been re-numinated to be an Ordinary Follow of the Allahabad University,

LONDON UNIVERSITY.

Appointments,

The Landon Conserver Professionable of Preach Literature, recently and away by a London timety. Cancil grant, has been filled by the attendance. of Dr. Gustave Rudler, D ès L. of Pars Univertity. Dr. Rudler, who was first on the but of Agriga: das Lettres in 1895 took his Doctorate four years ago, and is now Professor at the Lega Louis to Grand in Paris Dr. A. da Pre Denning, B Sc. London, P.B.D, Heidelberg, he be appointed Secretary to the London University Appointments Board

Mr. T. I.I Humberstone, B Sc, has been sppounted by the Gurversity of London to the Mitchell Studentship. The Studentship which is of the value of £100, as warded to the vilocted candidate to enable him to study seed unswetgets come definite feature of business or industrial organization at home or stroad. Mr. Humberstimes proposes to investigate a scheme in £Judential Fullowships in the Universities of Pritishingh and Studentships in the Universities of Pritishingh and Euroneae is primoted with Tunda provided by, and to some outent under the supervision of great industrial, add commercial prantantions.

New Senator

The vacancy of the Sanato of London University caused by the death of the late Lond Macanaghtan has been filled by the nomination of Mr. N Mighlim, E.C., who from 1996 to 1910 represented the Wetford Division of Hetts in Prinsmost in the Loberta interest Mr. Michael took his B.A. of London in 1873 and his Li. D to 1881.

EDINBURGH UNIVERSITY

At the spring graduation at Edubaryh University, far William Turner, Yice Choncellor, referred to the sumber of indue students who had come to the front in Art, no fewer than eaght gentlemen haring received the degree. In looking at the limbels of Sterence in the frond that the Indue harbor of Sterence in the frond that the Indue who had graduated in Sterence care from that grad country. He emphasized them we force and said they were ex-dece that the interes of India appreciated the training thy necessful in the University. They were familiar with the names of Indian students who had for long comes for I Indian talcolar who had for long comes for I Indian talcolar who had for long comes for I Indian talcolar who had for long comes for Eulahory for edocation in the other Facillius.

ABERDEEN UNIVERSITY.

The Univenity of Aberdeen at a recent Senate meeting resolved to confer the Henorary Degree of LLD on its distinguished alumnus, Sir James Meston to these days aberdeen University does not perhaps contribute so many men to the Indean Gird Service as it did thirty years ago, but the 3. names of, let us say, Sir James Thomson (now on the Secretary of State's Council), Sir Benjamin Robertson, and Sir James Meston are enough to show that the quality is not falling, remarks the Panter

TECHNICAL EDUCATION.

Typeweiter Topics.

Had force—Had lines end titles must be believed at the centre of the page. If the title is long at as best to write it without spaces, it is each of the space of the season of the space of the season of the space of the space

DUBLER KADER COMMERCIAL SCHOOL.

The Anniversity and Price distribution series many of the Dubuh Kader Commercial School, Madura, was held in the School Hall The Hordle Downs Behader L. D. Swattkeann Pilla, M. 4. L. 1. Registrer of Co-operative Societies, preding There was a large statedance of the cities of the city. The premises were instituted forecarted with greens. The proof and linducture. The Headmaster, Mr. K. A Sankire 19et, read the school report for the year 1911-12 yeard the school report for the year 1911-12.

read the school report for the year 1911-12

Then the Chairman gave away prizes to the successful populs. Special prizes slae were given for some in the students

The Chairman in the course of his remarks and that he took very great interest both personally and infinially in the progress of commercial education in this Presidency.

Ha congratulated the stodents who were declared winners of prizes in the various subjects taught in the institution and shot the Headmisster and his Assistants for the success which has attended at in the past, and wished ell success in the follow.

Mr. D. K. Syed Ibrahim, the Manager of the Institution, garlanded the Chairman and proposed a vote of thanks to him With the distribution of flowers and with the singing of the National Anthom, the meeting was brought to sclose.

THE COMBATORE AGRICULTURAL COLLEGE.

A very pleasing function was performed by Mr. D. T. Chadwick, L.O.S., the Director of Agriculture, Madras, at one of the specious lecture-half on the top-floor of the College in the presence of the students, the staff of the College and the Farm employees, Mr. R. Cecil Wood, Pincipal of the College, in an appropriate apeech, requested Mr. Chadwick, L.O.S. to distribute the diplomas.

After presentation Mr. Chadwick addressed the students in an interesting speech and wished them all success in efter-tile and a hoppy holiday. A group photograph was taken and the meeting terminated.

THE MADRAS ANJUMAN.

The 29th annual meeting of the Anjumao, Madra, was held in the Victora Publis Hall, with the Hon'hie Sir John Walls in the chair. The meeting was largely ettended. The Secretary read the Annual Report which was adopted. The Chairman in the course of an interesting speech said:

An intitution of this sort cannot stand still, and the difficulties of creating an efficient technical school will be always with us and have always to combated. One of those difficulties is that we cannot always get boys to remain long enough to capairs that full benefit of the accurse, because they are tempted eway by the prospect of more remunerature immediate employment than use on give them. That is the great Lauger which attends the new acheen which as are trying and against which we shall have to fight to the utmost of our capacity.

INSTITUTE OF ENGINEERS.

As interesting paper on Technical education in India was read at meeting of the Calcutta Section of the Institution of Electrical Engineers, By R. F. J. Robins. He gars edescription of the course of training "which could profitably be followed by all Technical students. He said --Having passed his Matriculation as minutum or owner recognized equiralent the student should then years, to be followed by a two-years' apprenticetible in a way for procedured students.

Once in the workshop the student's detailing in a good deal in his own hands. The very best proof of an appressive's success in the shops, and the most reliable indication of his serit, it is offer of a permanent job at the expay of his time; if he is considered a hed indifferent swaher and no use that he food for his sertices he may he looked on as not having achieved a great measure of auccess.

Association for the Advancement of Scientific and infusional Education.

The ninth annual meeting of the Central Council of the Association for the Advancement of Scientific and Industrial Education at Indiana was held at the Town Hall, Calcuta. About sirty members of the Association were present and among those present were Maharajas of Bordwan and Mahaipar, Nawab Sujat All Berg, the How's S. N. Roy, the How's Mr. K. K. Chand, S. N. Roy, the How's Mr. K. K. Chand, S. W. How's Mr. H. How's Mr. K. K. Chand of Grand of Burdwan, President of the Association, took the chair.

The annual report was read by the Mahareje of Nashipar, and a nomber of resolutions were adopted. His Excellency Lord Carnichael came and inspected the sarrous esticles exhibited. The Maharaja of Burdwan gara sound estrice to the students and the meeting came to a close.

Reviews and Hotices.

"Achievements of Chemical Science," by James C. Pinilip, M.A., D.Sc., Ph.D., 18 ond of A absica of books fublished by Messes. Machillan & Co. Duden the General Thiles

"Readable Doors in Natural Knowledge."

13. 63.

Starting with a brief annmary of the pioneer work of Priestley, Cayandiah, Lavoisier and others which laid the foundations of Chemical Science the enthor discusses in some detail the primary contres of power at the different kinds of fuel applied by Natore and the different forma into which these are often converted by men on the score of economy or convacience. In the 6th chapter ecough is said to convince the reader that it has aften fallen to the lot of Chemistry to sogcest comedial measures to saleguard the lives and health of indestrial workers angaged in certain dengerous trades and occupations. The two chepters that follow ciserly show how the advance of chemical knowledge has fead to the utilization of the waste products of certain indestrice as starting points in the manufactors of many useful and valuable bye-products. The two succeeding chapters show to what a great axtent synthetic obermatry has already succeeded in she arminial production of several tourganic and pressio natural products whose supplies from

Neture's laborators in deficient or fifth The total orbits and more of the errors maders as the control control by the scalifical chemist is the central theme of the lith despiter. The 12th chapter brings home to the reader that "the power of thittle" is a great to chamistry as anywhere else and that small quantities cannot safely be left until the state of the state

This little book nestly got op and with good portraits of some of the most eminest nhemists is sure to stimulate the interest of the reader in chemical science by belging him to resties the important part played by chemical forces in daily life and in the life of the community. The numerous examples of great man who at the rask of personal comforts and worldty profits devoted their lives to unselfish seerch after truth cannot fail to inspire the reader with higher ideals and nobler aspirations. We can therefore cordielly recommend this book to the students in the higher forme of our High Schools and the lower classes of nur Colleges and hope that copies of this book will find a place in every High School library.

LESSONS IN CITIZENSHIP, BY H J WELDEGREYE (NELSON AND SONS) Is 6d not

This is a recent addition to the inlumes prepared to accordance with the syllabor of the Moral Instruction Leegue, and like its predecessors of the series is intended for the use of teachers It follows closely the details of the syllabne laid down for Standard VII for pupils of 13-14 years of ege It is more spited to the cooditions of life prevailing in England then to Indian conditions and the illustrations are all taken chiefly from Eoglish history Still the principles is is intended to inculcate are common to all ownlized countries Unlike other books nn orvice it is not a mere description of the system of government prevening in the country, hot seeks to teach the dotter of a citizen. feeling of civic duty is particularly weak in It dis and it is therefore highly desirable that a score of individual responsibility es members of society should be unitivated to nor students We bave to teach our youth to become first and foremost good cit zens, as they have to take on

them the responsibility of managing husiness, public and private, of taking their part in politics and in municipal life, to originating laws, sitting no tribuouls, etc. especially now when we have been given enlarged Legislativa Connecie, and the right of electing a large number nf members in them, and educated men are claiming more and more the right of self governmeet and a larger share us the administration of the country The very first chapter to the book to na the osters of voting and the responsibilities of the voter in exercising this privilege. It is unnecessary to dwell on the importance of ench a knowledge to every noe seeing that a lerge number of people, literate and illiterate, have the privilege of electing not only members nf Taluk and District Boards and Monicos lities hat also of our Legislative Cannoils The anthor seeks to help the teachers in leading then papile to understand why people should pay taxes to Government, why the law should be respected, how eccuety to an organism in which the well being of cach and every member is the concern of nne and all, and to develop in the etodents the ideal of humen brotherhood-n shurt, to "teach the papits to think of the "We rather then the 'I'" It is impossible to axaggerate the importance of such a book in the modern life of the Indian people and we wish that some capable edocationist would write a book no the lines laid down here adepting it to the present conditions of India

CHERACTER IN THE MERIAG, BY ABEL JONES, M A. (JOHN MOREST) 27.

The problem of keenest interest to the edu catennist in India to day is the proper development of the character of the young ones in echaple and colleges The recent resolution of the Government of India on education placed the subject in the forefront of its contemplated Mr Jones's Character in the Making policy comes at an upportone moment to teachers in this country, and we have no doubt that if the moral education of youths is regulated by the principles enunciated in the volume, the results must be of the most encouraging kind. An appreciation of the conditions effecting the development of character is absolutely necessary for the teacher who professes to impart moral in artiction and we cannot concers of a better book for the purpose than the one under review. Mr Jones is no feddest forgetting his sense of perspective under the stress of too much enthusiasm for the moral life He is es calm and scientific, as he is stiniq.

lating in interest. There is a hearty attempt at the practical interpretation of chiracter and remarkable cate is exercised in warning the reader from pursuing the good too far. The book is as admirable mascal which must find a place in all school libraries and prove of the greatest benefit to teachers as a class.

CITIZEN OF THE EMPICE, BY JERNA L. PLUNKET (OXFORD UNIVERSITY PRESS) 14 44

The principles of mirzenship do not lend them selves to attractive treatment in the elementary classes The Oxford University Press supplies by this volume a very efficient manual for teaching the subject. The menner of exposition is quite snited to the young minds to which it is intended There is a spirit of cheerfulness pervading the volume and there is a laudable attempt at the infusion of a spirit of pride in the empire. The details of every day administration are brought before the atudent by means of a series of inter esting pictures Their association with things with which children are generally familiar is a ture means of gustanteeing their heing remembered by them There are a very large number of interesting and educative illustrations.

OXFORD ELEMENTARY BOOKS Old Trime Tales, BY LEWIS MIRSU, M.A. (Daford the Faures, BY Lawis Massi, M.A. (Oaford University Press) Is each.

The two volumes consist of romanto stores, paintenaity selected and structurely told A apcend feature as their relation to the mythology and folk lores in raried nations: representing distance systems of cardination. It is probably not too much to any that one of the narest metric of inculcating cosmopolitan sympathy in the young mind shy unteresting it in the legends and jalkines of other nations. The Oxford University Press is evidently bent upon making the books as attractive as possible. The illustrations and the grup are accellent, and the books are a marter of chespness. We ere also glad to note in them one or two storage relating to Italia.

GREEL LEGENDS, PY MARY AGYES HOMELTON (THE CLARRYDON PROSS). 20

It is hardly necessary to point out that a knowledge of Greek mythology is one of the

most essential things for a well regulated scholastic course It is not possible for toe young student to make any great progress in literature without being troubled constantly by ellusions to tales in Greek mythology at every step The student probably imhibes some knowledge of Greek legends by their occasional treatment in books But Mery Hamilton brings together the most important of them and tells them in a simple attractive manner for children Such a systematic and comprehensive survey of Greek mythology must be of the greatest value to the student We have great pleasure in recommending the book to teachers in this country. The price is however a trifle high considering the nature of the publication

NORSE TALES BY EDWARD THOMAS (THE CLA-

We had the privilege sometime ago, of reviewing a collection of Celtie Tales by the same author end we now welcome this book of Aoras Talas with equal pleasure William Morris has already worked in the precious mine and has enshrined the most valuable in them in undying poetry. Mr Thomas dose the more humble service of nerrating the tales in prose but he does it with remarkable power and discrimination. It will serve as a very useful hand book, for study and reference But it is also sure to be of use to the serious and more advanced student, who desires to enter upon a comparative study of early English and Norse Literatures which are bound by numerous ties of kinship Mr Thomas has been enabled by his special acholarship in the line, to make his volume thoroughly reliable

A SHORT RISTORY OF PAGLISH LITERATURE, BY, SAURTSBURY PARTS I-V (MACMILLAN & Co), 24 occ.

Professor Sentabury a book has been too long a classo on the subject to need only fresh review of its ments. Renewing this Spreams of Foulish Press Style Jeans 250, Valler Pater expressed his appreciation by the remark that is required a really great reholar to do the work. The remark applies with greater force to this well known chromode of literatures which has been a monument of the most admerable scholarship and cut cal discrimination. We see aware of the ments of all the hattories of English Lettature that can be used as College

manuals, and have no hesitation in saying that this is the most comprehensive and authoritative exposition of the subject Mr Gosse has indeed a more attractive manner and Mr Lang has on occasional felicity of expression which is a qualifi cation of no ordinary importance for his work, but a student of English criticism will find the most praiseworthy sanity and balance of mind only in Saintsbury a pages The inter charters empply a connected survey of the development of Fugl sh Literature in all its aspects The publication of Suntabury a manual in parts will be welcomed as a real convenience by students. The volume or tops a very large measure of popularity in the Unt versities of this country and we have no doubt it will go on increasing as long as the study of the histo y of English Literature has any place in their curricula

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The direct method is used in teaching perts of epech to Stendard IV The exercises gives with help teachers in this work, though in this Presidency most teachers already know the method themselves

PUBLICATIONS RECEIVED.

- Elementary Economics, by S J Chepmann, M A. London Longmans. 2s net
- The Last Century in Europe by Hawkesworth M.A. London i Edward A-nold 52 met.
- The Oxford Osegrephies, Vol. V North America, etc., 1s 6d, Vol. VI The Three Southern Continents 1s 9d. The British Empire Oxford: Circendon Press 2s 6d
- Matriculation French Essays, by H G Chapter, M A. and W G Hartog, M A London University Press 1, 6d
- Intermediate French Reader London Univernity Press 2s 6d
- The New Juniot French Course by G A Roberts, M & London University Press 2r 6d

- Oxford Elementery Readers Ierene Plunkets
 Citrzens of the Empire, is 44, Old Time
 Tales by Lewis March M A, is, Tales of
 the Fairles, by Lewis March 10d, Greek
 Legends by Mary Agnes Hamilton, 2s,
 Norse Tales, by Edward Thomas, 2s Bombay i
 Oxford Howeverty Press.
- Reform Arithmetic Teachers Book No VI (Gris Fdruon) by Pollard Williamon, BA BRC FRAS and F W Cook, A C P London; Macoullan 9d.
- Tales from the Story of Indis, by P T Smm
 was lyeugar M A Bombay Oxford Univer
 anty Press 10 gs
- Examples us Algebra, by H. S. Hall, M.A. London, Muomillan, 2s.
- Eccept writing Rhetoric and Proceedy, by Egerton Smith MA IES Bombay Oxford Uni versity Press Re 18
- Practical Hints on the Direct Method of Teaching English, by V Venketarame Dikebadar
- VII Annual Report of the President of the Ger negre Fundation for the Advancement of Teaching
- Indian Arte and Industries, Vol. XV, Issue of January 1913 Lundon W Brigge & Sons. 2s
- A Book of Historical Poetry London : Ldward Accold 8d
- The Children's Story Books Donkey Skin and Jales from the Mids, by Alice M Bale, 6d., Tales from Grama, by Alice M Dale, 6d., Lattle Red Riding Hood, and Other Stories by Alice M Bale, 6d London Macmillan
- The Children's Classics, Nos 33 and 34, 34 each London: Macmillan

Indian Educational Motes

MADRAS

P H S. Literary Accountion -The First Anniver sary Meeting of this Association was recently held in the Pacheryeppa's Hell, with the Hon'hle Mr Justice Tyahu in the chair, when Mr C P Ramsawems Aiyer delivered e lecture on 'Morel and Religious Instruction in Schools" The report was read by one of the Joint Secretaries Mrs. Beant and Mr. S. V Subramaniam addressed the meeting after the lecture by Mr. C P. Bamaswamt Iver was over The Chairman in concluding the proceedings of the Meeting said that eminent people had thought that intellectual advancement was nothing when compared to moral advancement. They should go ahead in the development of those charactee. He then congratulated the Society on its efficient work end wished it encouse in future. With a vote of thanks to the Chairman and the Lecturar the meet ing terminated

Touchere' Association —The twenty third annual meeting of the Teachers' Association Teachers College was held recently in the College Half, Saidapet The meeting wes preceded by a social gathering, the proceedings of the Meeting commencing with recitations. The Secretary read the report of the Association for the year 1912 1913 The report traced the history of the Association from 1910. the year of its origin up to the year under report. The Association is divided into three Sections-Mathemetics, Science and History, each section being in charge of a Secretary of the own. The atrength of the Association at the close of the year was 93 and the average attendance was 83 per cent. There were 18 General Mnetings of the Association. Il meetings of the Mathematice Section, 12 of the Science Section and Li of the History Section The Hon'ble Mr Justice P B. Sundare Iyer delivered a valed-ctory eddress With the neual vote of thanks to the chair proposed by Mr H S Dancan, the meeting terminated.

Madrea Literary Society—The annual general menung at the members of the Madras Laterary Society was held recently in the Society a premiser of Pentland. A larger the presentance of His Entellency Lord Pentland. A larger the proceedings when did a very interesting character. The Honorary Socretary Mr W F Grahame read the annual report. The Hunth Six John F Wellie moved the adoption of the merger than the three processing and the property of the process of of the proce

Pachaiyappa's College.—The Seventish Amstereary Meeting of Pachaiyappas Charities and Prisedistribution took place recentlywith H E Lord Pontland in the chair. The meeting was attended by a very leging gathering, and the body of the ball was packed with so enthineastic assembly of stydenia Among these present were the Hon his fir Balph Benson, Mr Jostice Tyah; the Zamudar of Aspelsewisen, Mesers R F dunin, S Ramasawan Kapilewisen, Masers R F dunin, S Ramasawan Hon, T Pettabhrama Iyer, C F Ramasawan Hon, T Pettabhrama Iyer, C F Ramasawan Hon Bal Messar T V Senbargur Iyer, B N Serna, V Mesalamons Piler, V Trawalar Pilas, Pandi Volyasagar Paudis Pandit D Gopale Cherth, the Hon blab Messar T V Senbargur Iyer, B Na Serna, V Senbargur Pandis Pandit D Gopale Cherth, the State of the Company of the Company of the State of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company Service of the Company of the Company of the Company of the Company Service of the Company of the Company of the Company of the Company Service of the Company of the Company of the Company of the Company Service of the Company of the Company of the Company of the Company Service of the Company of the Company of the Company of the Company Service of the Company of the Company

Their Excellencies Lord and Lady Pontland were received by the Trustees and the Principal at the entrance and conducted to the ball upstairs

The commonstation address of Demo Basic States. The Commonstation address of Demo Band of Trustees, was read by Dowen Bander M. Andrews and M. Y. Trusmels, Pillay, a Trustee of the Cheratees and Mr. Rollo, Frincipal, ther read the crespecture reports. The financial condition of Pachetyappe a Charities during the period under reports are follows——Edit Francis Condition of Pachetyappe a Charities during the period under reports are allowed to the Common Condition of Pachetyappe a Charities during the period that during the period of the Common Condition of Pachetyappe and Common Common

Her Excellency Lady Pauliand then distributed medie and books to the prine winners. At the conclosion of the distribution of prices, Ets Excel leng made a most interesting speech, and said Its seems to me, as a well wisher of education, that has use the modern of the property of the property of the state of the stat

Impurial Grants for Education—The Goreanment of Madras have gas polithed an order, deted 27th ultusos, approving generally of the proposals of the Eurocco of Pablic Instruction for the ultimost of the aperal Imperal grant to the aggregate amount of 13 habe which has been made available sensities that the proposals will form a suntestly consider that the proposals will form a suntestly working bases for the coming part. The memoratudom has been communicated, states the order, "to additional Members of the Legislative Council in order to give them an ecceptualty of comment and enggestion at the ensuing Meeting of the Coupeil"
This great of Ra 23 lekha is comprised of two portions, one the non recurring parties of 16.29 lakbs, being approximately one third of a grant of 49 lakbs the expenditure of which has to be apread over three years and which cannot be funded nuder finencial rules and the other the recurring portion of 680 lakhs As regards the 49 lakhs the Government of India here spanified that the following about the the plan of distribution - Colleges and Secondary schools and Training mailtainous (a portion to be used for the Engineering College) 6 lakba . Elementary echools, 17 lakba, Educational bygithe, gymnesia, play grounds, swimming baths. gardens reading rooms, common ruoms, etc 6 iskhe, Mencel training, 14 lakhe, Girle' echools. technical and special schools 6 lakhs, European education, 52 lakha University, 3 lakha, Hostels 4 lakha, The Director of Public Instruction has proposed that 16 20 lakes of this great which has been ses apart for expenditore in the next firencial year, he expended as follows the provision of slates and books for poor and backward pupils, 2 lakbs, and sould for poor son occurred papers, a regue, establishment of temporary treating a schools operating for 2 or 3 years, 1 lakh and buildings (for Board and Municipal schools boys and girls, 8 lakhs, Englagering College 1 lakh, University, 1 lakh, Colleges and Hospitels, 2 lakhs, 12 lakhs. As regards the provision of eletes and books, the Director says that the absence of such a provision hed been urged by various lospecting officers as a very potent obstacle to larger attendance at echools already in existence. Giber messures such as exemption from the payment of fees and the offer of small prizes and acholarabips for attracting more attendance ere diemissed as being empossible for they would ented recurring expenditure. The balance of 120 lakks is proposed to be held in reserve for any other scheme which may be matered within the neat few months. It would appear that s small Committee is proposed to be appointed to inquire as to what educational expenditure should be incurred as to bygiene and cognate matters. As regards the extre recorning grant of 680 lakbs the Government of India have suggested the following plan -Primery education, 350 lakha; Girla addration, 87 lakha, College and training institutions, 20 lakte, Secondary education, 135 lakter Technical and appearal education 0.9 lakin, Manual training, 12 lakin, European education 57 lakin. In regard to the first of these heads the Director proposes to distribute the amount among the following objects; il) securing a larger measurs of freedom from payment of fees in the case of poor and backward pupils by adding considerably to the present last of backward classes or castes on the base of 1911 canaus, (2) increasing the emoluments of trained teachers by increasing the rate of amount grants per teacher by the following amounts a lower elementary grade Re. 6. higher elementary grade Br 12 and eccondery grade Be 26, in the case of

teachers in enstitutions under public management. the grapt of capitation allowance to achords with the fourth and higher standards being cetended, these measures being intended to increase the number of higher elementary achools, (3) provision for opening higher standards in some of the existing schools, and (4) provision for extra teaching in exseting schools under public management, Iscal Boards and Municipal Councils will be given more money for enabling them to start more new girls schools The Director says that the available funds will suffice to do only a little in the direction of carrying education in the more advanced stisting schools to a lugber stage, for arranging for a certain number of more highly paid mistresses, for improving the facilities for training women teachers and for making apecial arrangements for educating and training more child widows who might become teachers A portion of the grant for college And training iostitutions as well as of that for encondar, achools will be set saids for scholerships in college and training schools and general adaption A maximum amount of Bs 20 000 is set spart for that purpose As regards secondary achoole, Dr Bour tells us that the bulk of the great will be distribled ad among aided and Local Board and Municipal accordary schools. He tells us fatther that if in alteration made in the Grent-in-Aid Code must pased upon the emount everlable and a they will very sample in nature and intended to all the Macagers to rely upon such larger share of a one expenditure as the funds will permit. The Durer nation of the Grant to property and butter education, but indicates that it may be utilise for a small technical institution at Davelaishwe i elsewbere.

3 1 T. Union.—H E Lord Pentland in Edward route the South In Market deparation from the South India Teach Government House, Capt H. Columber conducted the deputation consisting M. A. F. Gardioer, President of the Abs. M., J. P. Goteliogam, MA., Vice-Pres. M., J. Lakabum barasu baido, e., Mind Oth Chemer, S. 1. T., Mc K. B. Remanaon i Ma Lt. and Mr A. Pauchapakeso. General Secretary, to the Drawing 3 and 34 Eacellency received them. The He Bourns and Mr C B Cotterill, Pr. were also present. The Rev A. F. read ea siddress, and at the conclusion ing of the address, it was presented lency in a very handsome circular His Excellency made a entable repl gentlemen for the kind sentiments 2 pressed and assured the sympathy of t mentsowerds the requests they had me Hie Escellency had concluded his ret introduced to the members of the remembed conversing with them for -The deputation then withdrew.

A Students Gathering -The Madras stedents of the International Correspondence Schools of London were in full force at the Hurticultural frardens to meet the General Manager for India, Mr Arthur W Wise, and to welcome the newly appointed Dustrict Manager Mr J W Hoyle Mr W Wise welcomed the students and their friends and gave an interesting account of the very valu able work turned out by I C Schoos Ha then requested Mr John Adam who was present to address the gathering Alindan to the value of technical edecation Mr Adam gave most interesting reminiscences of the start of a commer cual school in this city, and related the difficulties they had badte contend with at first but stated that finally the results achieved more than compensated for the difficulties met with and overcome. He mentioned the names of several Indian gentlemen who wern at the time of the inception of the commercial school practically unknown het who new occepy respensible positions in the commercial world, and whn are considered authorstics in the perticular branches which they have adopted The principal among these he said are Mr K Snbra-mania Iver and S Vaidynatha tivar both well known to all present

Conjesvaram Girls School -The anniversary mneting of the Conjecturem Hinda Girls School Union was celebrated in Mr Colla Raghave Chetty e bangalaw with Mr Justice Sandars Iyer in he chair There was a large gatherieg of the well wishers of the institution present incoding Down Bahadora L. A Govindaraghava Iyer Joance T Sadeeva Iyer and M Adiearayaniah Mr O P Ramasami Iyer Mr V Mesilamani Pillay Mr A Ramasami Sasterar and the leading officials in the town such as the Dutr et Munsulf the Tabsildar and the Mnnicipal Chairman The proceedings began with recitations in English and Sanskrit by the ris The girls than enacted scenes from Haris handra in Sanskrit to the accompaniment of cellent music The Honorary Secretary then "Mid the report of the school for the past year The " sirman d stributed prizes to the successful pupils

tabe school and gave an interesting speech an Bahadur L. A Govinderaghava Lyar propos vote of thanks to the Chairman and the meeting to derminated

Col wat

worstion Model School —A very interesting tion took piece wires. Madras Corporation Model by cheary School at Vallabba Agrabaram, Tern hydran School at Vallation Die meeting was a led by a large gathering of most of the Com is fied by a large gathering or must be Mr P L CIE, (President) and the beads of the execu

ent were Dewan Bahader K. Krishnas was holder Mr T E Morr, Mr R G Grave, the

members of the inspecting agency of the Educa tinnal Department were also present. Mr P L. Moore requested His Facellency to formally open the school His Licellency then opened the school with a a lver key amidst load appliese and His Freeliency and party then made a full inspection of the buildings which was fitted up with the necessary equipments for a school, and then moved to the school garden and play-ground adjoining the main buildings of the school Some of the achool children then sang welcome and loval songs in Tamil His b xcellency and Mr A C Pranathar thibara Iyer made interesting spreches on the importance of elementary education Mr A C Parthasarathi Vaidu proposed a hearty vote of thanks to His Freeliency for having kindly opened the school Mr V O Seebs Change called for three cheers for The r Excellenc ea and they were responded to sn a most enthusiastic manner

The gathering deperted to the strains of Mangalam and the National Anthem

Government Subsidies - The Guvernment baya been pleased to sanction the distribution of a fur ther anm of Bs 374 930 to the undermentioned Municipalities and District Beards for expenditure on the construction of elementary school buildings and the payment of a sem of Rs 70 to the District Board Luins for the equipment of a school newly opened The Accountant General has been requested to place the amounts apecified at the disposal of the local bodies concerned

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Mangalore Rs 25.0 Connecers '000 Tellicherry 1000 Paighat 1300 Tutteorin 1,000 Mannargndi 1000 Cnddapsh 1500 Naedyal 3000 Anakapalle 1000 Parlakimidi 1 00 Combatore 1,000 Salem 8 500 Knmbakooan 16 000 Negapatam 5,000 Vellora 4000 Apriool 1500 Chingleput 500 Coranada 5 000 Nellore f 000 Masulipatam 1 000 Vizianagram 2000 Watejapet 3,500 Tsrupati 2000 Bellary 2,500 Cochin 3000 Tinnevelly 1350 Cuddalore 500. Gnatar 2500 Berbampur 2000, Palameottab 1650. Apantapar 6000 Tirnvannamslas I 000 Bezwada 8000 Tangere J 300 Chicagole 2500 Madura 15,000. brode 4 000 Vaniambadi 4.150 Palni 4,200 Karnr 7000 Conjeavaram 6000 Gudiyatlam 5,500, Dindi gol 5,200 Cal out 9 600, Sravilhputtur 2,600 Rajah mondry 11 000 Chidambaram 6 000 Bimlipatam 2500 Ongole 3000 Tenals 72.0 and Trichinopoly 6 650

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Medanapallı High School-The Telnga New Year a Day was celebrated on the 7th matent in

commonstion of the twenty five years' con in the life of the Medanpalle High School Theoregarlears of the celebration were the students of the mutution beaded by Mr. K. S. Koppe Eco., Fa., so old student of the High School The students absorbed to seet the expression on that day. The meeting was very injectly stended. The buildings have the students of the student

Pachsiyappa's Telugu Literary Society—The Scood Acurvarary of the Andhra Bassiaths Rumon Samayam was cubrared in Pachsiyappa a Lill indice the presidency of the P Nagabhashadian and the Pachsiyappa and the Pachsiyappa and the Scotaartes arbinited a very puteresting report of the activities of the Samayen during the past year. There was then e presentation of a model to Br A Laksamia, and of choice Telago model to Br A Laksamia, and of choice Telago Rosey, Writing and Rectistion of classed Telago Sersy, Writing and Rectistion of classed Telago Telago Carlos Carlos

The Senete end the Verneculers -

Visuopapatans—Alt a public meating of the citrasis of Visacapatam held to the Victoria Diamond Jubiles Cown Hall, Visuopapatan, on the Red instance to protest against the decision of the Madines Use versity making the swady of Cleanach and Vernacolar languages optional for the Intermediate and B.A pass courses, the following resolution was passed—

That the Meeting of the cutsion of Visingapatem protests against the decision of the Sussing of the University of Madras, refusing to make the study of the Classical or Vercacolis lappages compulsory for the Intermediate and the BA pass coorses and requests the Government of Madras to require the Sonate to reconsider the decision in edopting the report of the Committee.

Ohidombarum — Under the scapices of the "Sentramil Sangam," Chidambarum, spohio meeling of she readents of Chidambarum was covened in the pressures of the Town Incomplete becomberly School, Chidambarum, with Mr S R M M Ramasum Chettiarto the clear. The Chairman explained the objects of the meeting in an impressive speech and then readilitious were mand

Gesenada—Under the anaptese of the Interrup Association, Conneds, a large and representative public meeting was held to the Association receives to project a spenial the decision of the Semble Indian languages to the correct of study. Mr. J Meliparajo, e. a. Scr., was voiced to the chart in Chairman in opening the proceedings, made an interesting speech and a number of resolutions are

Kumbokonam — A public meeting was held table Porter fown Hell with the Hop ble Rao Beladet V. R. Rananung. Cherte to the chary to memorilize Government as regards the recent resolution of the Madras University Senses about the Indian Verneculars. Recolutions were passed.

The Churman then epoche on how the general puble could recepter in with the specialist in the improvement of the Vertaculers, and added that the protest about leaks the roof publicly deappreviage the action of each of the Juden members of the benus who had voiced in front of Committee report against the Vertaculists the usual voice of thinks in the form of the proceedings, will in Limit, termined in the processing, will in Limit, termined in the first Kin. In measure during the discount of the contraction of the con-

Predatur,—A public breeting was held in the Town Hall Fredetine on the 27th climic, to protest against his recended on the 1st hall the test against his recent of the Scoate of the Scoate of Lodge vernaculars in the correctle of studies for loter mediate and BA correct Mr. K Krabos Bao, 24-Lr., of the local High School, preaded, and a number of resolutions were passed

Touyers—A public meeting was held on the beack of the Volkers to a conclusify there for the purpose of discussing the firealistic of the Merica optional to the core and it. To submitted the sequence optional to the core as it. To Submitmental features, who presided, made a short introductory seeds, A number of resolutions were passed registrated there is a Bandston under protect. A abbounce there is a Bandston under protect. A abbounce has been also as the seed of the consideration of the protection of the protect of the conlines. With the sensitive of the characteristic and the consideration of the conlines with the condition of the contraction of the con-

Palghat—A special meeting of the Malayslam Academy washeld on the 6th instant, to the Nativa High School Hall, to protest against the reach decision of the Senate of the University regarding the postson of the Indian vernacolars to the curicula of studies for the Intermediate and the H A. Course. On the motion of Mr. M. P. Kanna-Mrif p. L. pt. Mr. K. Knohikutas Thumban, the President Founder of the Academy, was unasibors and nest peech "spiling to the andience blood pleet of the meeting, and orged apon them the necessity of their esterior per peters against the decision of the Sensie. A monther of resultment of the sense of the sense of the perturbance of the Sensie. A most of the Sensie of parallel control of the Sensie. A most of the Sensie of parallel color of the Sensie. A most of the Sensie of the parallel color of the Sensie.

Pudukotah - A largely ettended public meeting of the citizens of Padakatsh town and suburbs was beld in the premises of the Veds Sastra Pataesia, to protest sgaiost thu recent decision of the Senate on the study of the vernscolars. Amonost thosp precent were :- Mesara S. Radhakrishna Iver. B A . FMU. G Snuderses Sastrial, BA. Bt., Rao Babadur J. Dharmarange Raig, A. Mabalinga Iyer, V S Krishnaswami Aiyangar, BA, BL, and H. Narsyaosawami lyer, M.A. besides several othere, Mr. G. Sonderasa Sastrial, who was voted to the chair, made a few latroductory remarks explaining the objects of the meeting and observing that since the Indiane were accostomed to their own vernaonlars, from their early childhood, they would be losing their national obsrscteristics if the stody of vernaculars was not made compulsory, Resolutions were passed and the meeting oams to su end.

CALCUTTA.

. ' Director of Public Instruction - A Communique of the Education Department states :- On the recommandation of the Government of Bengal and the Government of India, the Secretary of State has appointed Mr. Horoell, formerly of the Indian Education Service in Bengal and now occupying a responsible post at the Board of Education in England, to the Indian Education Service Mr. Horoell is also appointed Director of Public Instruction in Bengel for five years. The Gavernment of Bengal and the Government of India contemplate an ective policy of improvement end expansion of education in Bengal particularly in Primary and Secondary education. For corrying out this policy the Government of Bengel required an officer with special experience and qualifications and knowledge of modern developments in education. While recognising the attainments of officers serving in the Province, the Local Government considered that oone had the special experience and qualifications required. They therefore applied to the Government of India under the terms of the Government of India Resolution No. 679, dated the 12th September 1906, and suggested the appointment of Mr. Hornell who possessed in an exceptional degree the experience and qualifications required for a period of five years only in order to carry out the desired reforms. The Government of India while recognizing the ettsinments of sareral memhers of the Indian Educational Service were noabin io the special circumstances of Bengal at this juncture to make a suitable estection from the ranks

of the Indian Educational Service in other protinces; their decision involves no departum from the declared policy, the procedure of which had been structly followed and certainly there was no refloction on the procedure of the procedure of the procedure of the procedure of the salety by the procular needs of Bengal as the present time. Mr. Hornell baring been in tooch with madern developments of education in England and having served as lospector and Assistant Director of Public Instruction in Bengal, has exceptional of Verbroment has recordly applied for his refried Overcoment has recordly applied for his refried

The Presidency College -A distinguished party of European and Indian ladies and gentlemen met et a Conversassions held in the Baker Laboratories of the Presidency College. The distinguished guesta included His Excellency the Governor of Bengal and Lady Carmichael. Arrangements were made to hold, in the different rooms, a number of simple experiments and demonstrations, in which the goeste took great interest. The list of the experiments shown was as follows:-In the Histology room-Mathod of prepariog objects for the microscope and the process of cutting extremely thin slices (1/2500 of an inch !); oironlation of the blood ; the sacking power of transpiring plants; life in a drop of water; flow of living matter in vagatabin celle; varioca objecta undar misoroacopes. In the Optical room-Mixing colour sensa-tions; bow to take magnified photographs of exceedingly minnto objects; messoring oce's field of vision; buw to examins the interior of the eye; Some picture of voice la thn Lacture Theatre-Lentern demonstration :- Complementery coloure of absdowa; a process of colour-photography. In the Preparetion room-How to measure one's bloodpressure, breathing capacity, strength of muscular contraction and scuteness of touch. In the Experimental room-The experiment that gave birth to electricity; graphic records of :- Fa tigue of muecle ; the character of heart-beats, antographs of thu nalse; bow emotions affece breathing In the Research room - Psychological experiments :- Massoring " personal equation " for sight, touch, hearing and mental calculation; graphic study of fatigos and the conditions that influence it; massage by electric vibrator; X-Ray apparatus. Keen interest was taken in the experiments by the guests. Their Excellencies appeared to be thoroughly interested in everything which was calculated to add to the encouse of the function.

The Netional Council of Education —The prince lebration of the National Council of Education, Bengal, was held at A. Pandshati Villa, Muraripaker Road, Musicolla, Mr. Justice Coudury predicting. The reports presented by the Secretaries were on the whole satisfactory and harved progress during the past year. The Rector,

Mr P. N Bose and the Chairman gave interesting speeches

Victoria Institution - The annual distribution of prizes of the justitution took place at the school premises under the presidency of the Bon'ble Mr P C Lyon, csi, when Her Excellency Lady Carmichael was kind enough to distribute the prises. There were precent many respectable ladies and gentlemen of the city At the request of the Presi-dent and gentlemen present, Her Excellency made an interesting speech amidst loud chests. After a hearty vote of thanks to the chair, the meeung separated

The Research Scholarship -The Research Scholare named below are re elected for enother year, the place of work hong the Presidency College, Calcutta Khiti Bhusan Bhaduri M.Sc.—Subject -Chemistry with special reference to the animect of molecular conductivity Bhuisnes Bhusan Makherjee, MA -Subject -Indian becomes with spacial reference to the subject of the growth and development of Indian Finance Saret Chandra Jene -Subject -Inorganic Chemistry with special reference to the subject of ferments and fermentafrome.

Shahzedpur H E School.-A bendsome building grent of Re 21 580 ise been sanctioned by the Government to the Shehzadpur High School for the construction of ite "pucca" buildings estimated at Rs 32 000 A bill for Bs 7,150, being one third of the total grant, has been already passed and the building work is shortly going to be commenced The Tagora Zemindars of Calcotta have kindly made a free gift of the School land and promised to pay Re 1,000 towards the building fund. The public are indeed very thankful for their kind patronage and generously

BOMBAY. Education in Bombay, -The Bombay Covernment have peaced the quinquential review of education in the Presidency It states that during the period covered the total number of educational matitutions of all kinds rose from 13 967 to 16 460, while the number of their pupils increased from 720,547 to 922 888 The letter figure represents 34 per cent of the total population of the Presidency and 22 7 of ita population of action going age, the corresponding percentage at the commercement of the quinquennal being 28 and 189 respectively. The becondary schools now number 558 with an ettend suce of 74 601 scholars : 517 with 57,388 2)7 with 57,388 schools the scholara In the co advance, as might be advance, as might be , number of auch school to 12 763 and the fic to 717 130 Duese

annual edocationas

indirect, from ell 100

Rs. 13,617 000 as increase of 27 per cent Of the latter amount the Provincial revenues contributed Re 539800 an against Re 43 08 000 at the commeacement of the quanquenoum. The total axpenditure from all sources on Primary education is now 58 lakes or 42 per cent of the whole, and towards this provincial revenues contributed nearly 23 lakha mostly in the shape of grants to Local Boards and Municipalities

The statement prepared by the Bombay Government for the Royal Commission regarding the Indien Civil Service has been seened by the Government su a pair of blue hooks. The history of the recruitment system of the I CS is reviewed and the merite discussed at length, while the alternative method suggested together with questions relating to age and training of candidates are also carefully canadered The general conclusions errived at may be sum merised as follows, -

The system of recruitment for the India Civil Service by the open competition exemination in England bas given efficient results

- 2 The subjects for the examinations cannot be improved apop.
- 3 The age of condidates might with advantage be lowered
- 4. There are drawbacks incidental to combining the Indian Civil Service examination with that for the Home Civil Service, and it would be en edvan-tage if the former could be for men two years younger than the age for appearance for the llome. Civil Service
- CHIL SCRUCE S. Simultaneous examinations in India and England may be considered as imprecticable. Dark are open to the most serious objectic, as for the reasons given from the point of the precision of the system of the precision of the system of the precision of reasons given from the proposed of the point of the precision of the system of the

The Government proceed to propound a Jackson of scholarships for accusing Indian lada to 10 to England to prepare and compete for the eremit. on the present lines.

Fergusson College -Addressing the students of the Forgusson College on the occasion of the mine teenth anniversary of the College, the Honble Mr. Lallubhas Samaldas dwelt upon the necessif of some agency to correlate the existing social movements educational as well as political. The growth of the base and the superstructure most and the speaker go hand in hand. 'there should be intelligent thinking combined with the work and fields of work should not be confined to a few catees only The advancement in civil politics will be usaless which can only be acquired by deep industry. In the connection the speaker enlighted the Sorreates the Indie Society as the only Indie tottom whose members try to educate the people so as to bring them lots a line with themselves. A regards his essistance to be given by indissiduate in the work of cations' progress, Mr Lailabhas said that if we keep nor social concenera awake and work with will according to the dictiess of our work of the said of the Mr. Free of the work of dusing good and unafel work. Free of the work of the good results we will have the saidston of baring does not dury

TRAVANCORE

A Retiring Professor -The Maharajah'a Collega in Travancora has been exceptionally fortunate in having possessed Professors who were not only good adocationists, hot men of character who wielded a wholesome influence over thoir students and won their esteem and affectionate regard. The names of Professora Rosa and Harvey are still household words, for they were the pioneers of higher education and their character mure than their abilities have won for them an abiding place in the educational butory of Travancore. Among the many men who were moulded by Professors Ross and Bavey in Professor LaBonoberdiera was, who obtained his cerly education in the Trivandrum cohools, and who gradosted from the Maharajab's College to 1878, passed his Master of Arts examination in 1879 and was appointed an Assistent Professor ammediately Since that time 34 years ego Mr La Bouchardiere bas laboured wholeheartedly in the Collega and has won the esteem and appreciation of bundreds of students, many of whom are holding high positions in South India and Madras City Mr. LaBouchardiera coached the lete first Prince of Trevenoors for the B.A which be passed, has superintended the education of the obildren of H E the present Maharaja, and has been Warden of the Caste Hunda tloatel where his knowledge of Indian life and character qualied him to give overy astisfaction Therabas not been a public morement of any kind in Trivandrom for the last 30 years in which Mr La Bouchardiero has not had a large shara of responsibility Ha was appointed examiner for the M A. Degrea in English for tha University and as Chairman to the Board of Ex aminere, and Honorary Secretary to various public institutiona His popularity is great and his retirement from the Travanoure Educational Service is very widely deployed The Deway Mr Rajagopalachart recognized as soon as he assumed office in Travancore the anomalous and mequitable treatment given to Mr LaBonchardiern in comparison with his colleagues from England and unbusitatingly placed Mr LaBouchardiero on equality with them in rank and pay, and there is no doubt that in his retirement ha will in consideration of his long and loyal service and his public spirited work, unjoy the same privileges to regard to pension A public movement to establish a memorial is on foot both in Travaucore and in Medres.

foreign Hotes. GREAT BRITAIN

National Education -A memorial, urging the Government to undertake at once a comprehensiva reform of national education has been presented to the Prime Minister by a large number of well-known educationists. The memorialists, referring to Lord Haldane's declaration at Manobester on January 10, say they realize that his speech raises aducational policy to a higher plane, and believe that public opinion can now be roused to a serious consideration of this great problem. They propa that large measures of social reform require for their full realization the compelling power of lolly ideals which only a truly national aducation can inspire, and they believe that all sections of the nation are now more than ever disposed towards affective mutual endeavours to develop the intellectual, moral, and spiritual faculties of each citizen as the aurest mesos of alleviating the present discontent. Education treated as an affair of the spirit would, they argue noits all the spiritual forces of the pation, and ther, therefore urga than to order to meet sumedisto needs the seriona concern of all achools should be the unningroup of those fundamental moral qualities upon which the walfare of States depends. The memorial goes on to meset that adequate provision for education to all grades, from the Primary school to the University. be made in every defined area of the nopplation, and that the artificial barriers butween grada and grade should be, so far as possible, broken down." mamoriel concludes by referring to the need for amailer classes, a broader curriculum, and more teachers, better trained and better paid, and proces that the State should seame some firmer guardian. ship of youth linking up the family with the school and metroction with wage-carning employment, whilst paying dua respect to the rights of parenta and the interests of amployers,

University College, London -The Senato of Horveraty College London, has issued an important mamorandom upon the scheme of development of the college dealing with the site, heildings, and equipment, the steps now heing taken towards their completion and the funds provided and required. Wa gather from particulars which have been pohlished in regard to the scheme that the extensions projected are comprehensive, but of vital importones to the welfare of the college University College is becoming more and more prominent in London as a school for the preliminary medical atodies and for research Pharmscology and Physiology are adequately or even sumptuously housed, and Chemistry, when the new Isborstory as complated, will be in a most favourable condition but Austomy is still scattered throughout the college, and preently requires concentration with the other departments in the medical matrints of the college. The estimated cost of a holding anitable for it is £45,000. The school of applied

states us and the Galton Laboratory represent a type of work in which University College has been a pipeeer and it is proposed that these and the new school of architecture should be accommodated by completing the maio quadranagle, Much of the money required for this is already available, but to complete the scheme £28,600 will be required The proposel to convert All Saints' Church into a ball for the college chould meet a real public need. The college has nearly 1700 students, but their largest room the Botsoical Theatre can only seat 400 The cost of the new hall will be £12 085 The chemical laboratories now in course of erection will place the college in the forefront of the chrms cal schools throughout the canutry. To complete it £28 652 is needed In Egyptology the infinence of Professor Flinders Potri and his assiduity on a research worker and a collector have made tha college one of the few recognised centres for the subject, and the authorities are anxious to take advantage of the apportunity that offers to purchare his collection at what is virtually the cost price of £5 985 In its library again the college te for shead of most other institutione both by the quantity of its rere volumes and their arrange ment into special libraries. The work here is greatly restricted for want of funds and to make it thornighly efficient and to carry out the neceseary structures siterations £31 415 is required. For engineering the college is esting for £10 500. while for verions structural improvements £13 600 is needed. The total cost of the projected scheme is estimated at £182,562 In the course of the memorandam the Senate point to the special ser vices that University College has rendered to education

Professor Dowden - Ceneral regret will be felt at the announcement of the drath of Profesor Ed ward Dowden the great Shakespearian scholar who had occupied the chair of English Literature in the Daivernity of Dublic since 1867, a period of 46 years Professor Dowden was born in Cork in 1843 the son of John W Dowden and Alicie Ben 1043 in and he married first in 1866 Mary the daughter of Dav d Clarke, and in 1895 Elizabeth Dekinaou, daughter of the Very Rev. John West, Dean of St Patricka Dublin, by which lady he leaves one son and two denotiters was educated by private teachers and at Doblin University Besides his standing Professor abip be was Clark Lecturer in English Literature at Trinity College Carobr of From 1893 to 1893 to 1893 to to Ireland from 1896 to 1901 and a Member of the Academic Committee of the Royal Spriety of Literature He filled also many other offices of literary distinction. His valuable publications are known to be many and scholarly

LITERARY NOTES

The following are some of the recent and forthcoming books of the Ostord University Press -

The Science of Etymology, by the Rev Walter W Skest Litz D, 4s 6d. ner, A Testbook of Elementary Trigonomotry, by B, S Heath, M.s., Dec 2s 6d, Thoughts and the Present Disconlents, Speech on Cancillation with the Colonies, Speech on American Taxation by Barke, with Introduction and Notes 2s 6d each, A Hendbook of Austomy for Art Students by Arthur Thomson, x 1., x.6 16s net The Early Education of Children by Laura L Plaisted 4s 6d net, Shakespears's The Tragedy of King Richard the Second, edited with Introduction, Notes Glossary, Appendixes on Staging and Procedy and an Illustration of the Shakeepearsan Theatre, by Henry Newbolt, under the General Editorship of J O Smith 1s 6d peer The Indian Tressury of English Verse, selected and edited with Introduction and Biographical and and a with introduction and diographics with the Prolinatory Notes, by is G Dunn Ma (Oros) Rs 1. Test Books to Chemistry, by A M Kells, B Sc Pn D — Introduction to Practical Chemistry Sc 6d. net Maousl of Practical Inorgania co on net Maouel of Precional Today Chemistry Quelitative and Quantitative is nel-legele Doctrines of Formal Logic, heigh a Trans-lation of the First Section of the Supercive Logic with latroduction and Notes, by H S Macran, 70. 6d net, English Literature and the Classics ! Tragedy, Pletonism Theophrastus Greek Romances, Cherconismam Vergil Ord, Satora, and Sencian Tragedy, collected by G. S. Gordon 6s netsugray, consected by G. S. Gordon on after Sesame and Lalies two lectures by John Bankin, edited with Introduction and Notes by G. O. Wheekard a. A. The Oraford Book of victorian Versa, chosen by Sir Arthur Quiller Conch, Statespheres To Merchant of Vertice edited with Introduction and Notes by H. M. Pertus, Ma. Ra. I & a. a. In Introduction to Psychology, mare especially for teachers by T Loreday as J A Green B & G. Strik. The Balls of the Books edited with Introduction and Motes by Seitlerny Crait 2e, Ma. anlay a Essay on Lord Byron, Paper 3d. Chob 5d.

Macbeth King Lear, Hamlet, Much Ado About Nothing and the Tempest, Plays of Shake spears, edited with Introduction and Notes by sprars, edited with Introduction and Notes of the Geodon, X a. Five volunces now ready—Hamles Corolaous, A Midaummer Night a Dream, Az Four Lotes Zi, and the Tempera Lie as rack, General Outlines of Longanic and Organic Chemistry of the Corolaous and Companies of Companies and Comp Ghemistry by A M Kellas, B Sc. Ph.D.s A Treatise on Hydrostatics, by George M Minchin K.A. 7 R.S. Second Edn., Revised Minchin R.A PR. Seco. Vol I 40 6d., Vol II 6s

Ready shortly

"Simple Economics" for Indian schools and colleges by J R Cornat, ha This useful book has just been published by Messra Longmans, Greek & Co Te first part of the book deals with the theory of Economics and the second part goes on to apply the theory to Indian conditions. The second part is especially very instructives it gives in a small compass and in an interesting manner as account of the present economic conditions in India.

Forthcoming Books of the Unionvity Tutorial Press: A new volume in the special series of the dock for the Cumbridge Senior Local Examinations will bortly be published under the sittle of Sewar Folimeiric Analysis. A number of examples are folly worked in the text, and in addition, problems are given for extra practice in the application of the methods. The book is provided with an index table of atomic weights, and table of logarithms and autil-logarithms.

Another book on Chemistry which will appear shortly is Qualitative Analysis. This book together shortly is Qualitative Analysis. This book together Elementary Quantitative Analysis—provides of ourse of Inorganic Analysis of the standard of University Intermediata Exeminations. Qualitative Analysis has been taken with algit silversitions from Quantitative by the same authors. The object of the book is to keep the stadent in touch with the foodbamatal principles of the subject and at the many practicel difficulties of tensipolation.

Preliminary dribbaste, which is now in the press, provides a course of Artibastic similar for popula of ten to footeen pears of age, based on mathods which have been tested for meny pears with excel-lear resolus. It should prove especially ageful in missues preparing for the Preliminary Cambridge Local Examination, end includes anticient work for the pues standard of the Junior Paper.

A Taccher' Manuel of Reglish Grammar and hadjars, by Hurm Boy Wilson, A. M., Litt. D. Head Department of English, State Normal College, Obio University, Atlena, Obio. This book will doubtless revolutions: the teaching of English Grammar. The student is taught how to use English through a study of good English by the substitution of the control of the control was the control of the control of the control and the book virtually becomes a book of value quotations as well as a monosi of English.

The following are some of the recent publications on Geography:-

Hutsrood and Konomie Geographies. Book I., World Steicks, by Merces Progest and Robert J., Funch, illustrated, (Dent) 2s. 64; Phaymershy for Hub Steicks, P. L. Birgant W. W. Cleschmin, and W. T. Jorrey. Hutsrood, Harrey, W. M. L. Newbook and W. T. Jorrey. Hutsrood, Harrey M. L. Newbook and Journey Seres "To be West of Keyland by Candy B. J. Phys. Illustrated, (Dent) 2d, 186. Ben University Library, Oanada, by A. O. Bredley Williams and Norgank, 1 at May Projections by Williams and Norgank, 1 at May Projections, by

Manual Training for Secondary Schools in India, by A. H. Mackennic, (the Indian Press, Allahabad). The author is the principal of the Isrgeet and the beat equipped insustation of the knod in India and the book repeasants practical inquiries and experiments carried on there. The book is very folly illestrated and sewerly practical.

Introduction to Physical Geography, by M. I. Nambista, (J. M. Dout), 3s, 6d. This is a really scientific and advanced book written in a somawhas difficults atyle. It is probably beyond what Indian teachers would read at present.

A Hand-book of Saglish Literature, by W. T. Webb, as and J. A. Aldu, N.A. with an introduction, by C. H. Tawney, N.A. C.E. It is entirely nored in the treatment and wile. Utilis, arcidinary manuals of treatment and wile. Utilis, arcidinary manuals of dates, but it sinns at groups of the book begins white survey of the whole of English Literature clearly showing the momentum that book begins with a survey of the whole of English Literature and introducing anthors only as illustrature and introducing authors only as illustrature and introducing authors only as illustrature and introducing authors only as illustrature and introducing and the constitute, English Literature and surfacing as every received to the control of the control o

History of Aurangeth Vole I and II, by Prof. Jadoroth Sarkar, Ma., of Patra College,

Assolute if Aurengab and Hutorical Sueys, by the same author. These three books are the result of the devoted isbours of a lifetime given to the study of the reign of Aursogaib Mr Jadonath Sarkar has collected from a variety of sources an enormous mass of meternals, which he has need with judicious cero and with the penestaking particularity of scholarship

English Readings for Schools General Editor Wilbur Lucius Cross — Selections from Tempason a "Lidylis of the King by John Erakun (Henry Hols and Co., New York), the following are included The Coming of Arthur Lacelot and Eisme "The Holy Graal" and "The Passing of Arthur

Gold Nuggets of Literature by Alfred O Tower (Boston Educational Publishing Co) Books, I, H, III This is a graded Anthology of Poems for memorizate

Illustrative Examples of English Composition, by James W Linn (New York Charles Scribbe and Sons, 1913).

A companion to the solber's Essentials of Essents of Companion and published in the same style. Most of the selections are presented for the first time in a book of this kind. The employs is upon comparatively recent writers and the book as a whole has the same unconventional and practicel air already soled in the case of its practices.

The following ere some of the recent backs on

History —

Escentials in Early Buropian History by Howe (Longmont) 7 65 net., "the Genemant of Surger by ORg (Macrollies), 12c die net., Lofe of Mary III by ORg (Macrollies), 12c die net., Lofe of Mary III by ORg (Macrollies), 12c die net., Lofe of Mary III buspas and colour chart (Longman) 7 65 net. Lectures on American, Olivi Pin, by J. P. Rhoder Lectures on American, Olivi Pin, by J. P. Rhoder Carlest Twee to the Persant Day sents a Hustory of the Oversan Dominions by L. Ceell Smith E. Lectures and F. W. Bernholt. Chrestopoil) 26 d. Across a Dominions by L. Ceell Smith E. Green and F. W. Bernholt. Chrestopoil 26 d. Arrent and Chrestopoil 26 d. Arrent and Chrestopoil 26 d. Arrent and Chrestopoil 26 net. 26

The common burden of the following books is that character building is the apprene end of education:

(Minocier in the Maining by Abel J Jones (Minocier in the Maining by Abel J Jones (Mino they), 22 and Richard by J (Morad Mooris (Bell)) 22 6d, not., The Bights on Butter of Offices by Henry Ellion Mallone, E gibth dedition, ratiod, (Minhaert) 16 6d. Lessent in Ottocoming, pp. A. J Walderriev (Michael) 16 does, 12 The Maining St. J. (Minder in Changeman), 12 The Maining St. J. (Minder in Changeman), 12 The Minder in Changeman, 12 The Minder in Ch

Mehitary College, by M G, Archibeld (Mecmillan)

A History of the British Nation, by A W Innes Jack 3: 6d not. It is eminently received and the supportability, approximate or critical limes of the Tudors and Staerts will commend it to all but bigut The character of Oliver Cromwell is aympathetically yet critically drawn

SCHOOL AND COLLEGE SPORTING NEWS.

Steems at the Maduka College Day was celebrated with great select by the former pupils of the Madus College and the filter at 730 at Sports were held and the following were the results in the

rerious events — Sagues

220 Yasus Dasit,—B Nersyan

Hueder Bacz—(1) Dedemish (2) Suryanerajan

Perrias Walsur — C S Sankaran

Gicle Race — C & Romo Rou.

Juniore.

Porazo Carrelano — A Venkolaenbbon
Trees legged Race — (1) M V Sunderam

(2) L Jegedesen 100 Yarde Dask —M Steenseem Mathematical Tripo —B Gopele Kriebban.

SIAA Football Tournament Engineering o Medical

The final of this tournement was played between the above teams on the SIAA ground There was a fairly large gethering of spectators assembled to witness this match and the play, though it was not as fast as one would have wished was none that less quite interesting to watch The Engineers son the match by 2 goals to nil, and there is no gaines, ing the fact that on the day a form the better warm won. The Engineers owed their victory not so much to their forwards who scored the two goals in the first bell to which with the wind greatly back. ing them up they had everything their own way as to their defence which held out splendidly sganes the wind in the second half when the Medical forwards time after time made determined efforts to score In the first half the Medical defence was hopelessly ancertain and it was this more than any thing else, that accounted for their defeat.

Students' Badminton Club Tournament-

The Triplicane Masim Association played the Egmers Shunmuga Vilas Club and the former wou by 58 to 18 in the two ionings. The Madras Students' Club then faced the Madras Social Club,

the latter winning the match by 53 to 22 m is we minning 0 of the second day the Nepar Park Badminton Chih "A "Leen and their opponents the Massingstom Franck" Union played, the latter Advantage of the Park State of the Park State of the State of the Park State of the State of

The Tropicsona Medium Association and the Massilpatam Frended Union played again The Mashim Association proved too strong for Massilpatam end won by 35 to 25. The prirae consenting of a Silver Cup and Medals were presented to the Ammers by Mir P V Durawsony Medalata High temperature of the P V Durawsony Medalata Lingham of the Mirae Massilpatam has won the Cup the second time. Modified not being ready will be presented letter on

HOCKET AT ALTEREN COLLEGE
The Algest College plend the Bombay Custome in the Age Khan Tournement. The game was a fast one, neither side scoring to the first bail? In the second half Aligerh gave the Costome so easy goal, which they followed up by a second, beating Ahgerth by two goals to love.

STORTS AT NAGREE SCHOOL

22od Merch was an important day to the history
of the Naill City School Negpur. There was a

programme of sports and games in which not only the students of the echool took part but the teachers also. The teachers of the school of thur name and position on this occasion itself themselves exclusively for the distribution of prices and it may be and to their credit into they acceded excellently in the purpose that they cherushed at heart. The programme consists they cherushed at heart. The contract of the contract of the contract of the contract of the characteristic and the contract of the contract of the contract of the contract of the characteristic and dispersion to the students at night

STERRES SPORTS AT PROTMAL

On the Donisad day during the Holl festival andneis sports were organized by Mr Neistand the Berwanes of Indie Sposty A committee was Grond with Mr Armstrong D S T as the Chestrone. Students from all thobles-montheony served by the Committee was considered to the Committee of t

LONDON UNIVERSITY ATBLETTO UNION

The date of the Lundon Univestry Athleta Union Sports, originally fixed for May Isls, has been changed to Thornday, May 22nd Not only does the Union errange, these sports, but it isls conclude a number of clubs smoog them the Goldon Society, Crassing Club, Rife Association, and Ches Clob, membership of which is open to graduate and noder graduates of the University

THE OXFORD GEOGRAPHIES:

Vol. III

THE SENIOR GEOGRAPHY

BY

A. J. HERBERTSON, M.A. (Oron.), Pu.D. (Faristical I B.)

Realer in Geography in the University of Oxford

AND

F. D. HERBERTSON, B. A. (LOND.)

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The Educational Review

In our last issue we published the Resolution of the Gavernment of Imperial India nu education which we criticized es dealing

with generalities so a merely academic discussion would do Ample amends have been made in the Government of India's Notification No 51, dated Delhi, the 29th March 1913 This Notification teams with interesting statistics, which prove that since His Imperial Maiesty announced at Delhi the "Imperial Durber grant of 50 lakhs recurring," the Government of India has mightaly increased its solicitude for the spread of education, the Educational Summery -March 1913" gives the statistice of expen ditors as follows -" The total expenditure (in round unmber) was Rs. 785 lakhs, of which 405 lakhs were met from public funde and 270 lakha from private funds" We slee learn than since "the new department put to work in January 1911" " Imperist grante for education have aggregated, non recurring grants to 479 lakhe and recurring grants to 115 lakha" These figures by themselves are estudactory. but a careful study of the Government of India Notification reveals the fact that un definite policy, no previously thought of scheme of work underlies the distribution The Government of India says that it called upon Local Governments to give a rough estimate of their requirements and partly cuided by these estimates and partly by the population end other stetistical con siderations, it had mede, off and on, doles to the various Local Governments This is clearly a rather haphazard method of developing education Instead of have

your plan and find the money for it, it is rather, take so much and spend it as soon as possible The non recorring greats have especially been inconvenient guests in the office of the D P I The only very of getting rid of them was to divide them not estall sums, guided again by financial considerations and dole them on it o chools to spend as they like Schools, like Goren ments', have no definite plan of orpanson, not being prepared for anch windfalls, we they have spent the monies given in ell sorts of haphers and ware

There is much talk nowadays should technical education, but neither the Government Technical Education nor its critics seem to have attempted assumely how much real work in developing it is urgently necessary. In the onening year s grant of 15 lakhs is made for this purpose A more ridionlously small grant cannot be conceived. This itself is enough proof that there has not been a serious attempt to grapple with the problem of technical education Madras will get Re 9,000 out of this lakh and a helf What echeme of technical education is going to be financed with this handsome figure it will be interesting to learn So much with reference to recurring grants. There is besides a non recorring grant of 25 lakhe for girls echools, technical schools and special schools. Madras gets the largest share of this emount, 6 lakbs We agein contend that 6 lakhs is an abancily small sum to be used as capital expenditure for girls' achools, technical schools and apecial schools in a Presidency so large at Madras If this sum were again to be sub divided according to statistical and uther considerations, it would be frittered awny We recommend that the whole amount he devoted to one institution—say a school of muss. The old fiction that Indian pupils do not take kindly to hand work and the Indian workmen do not take kindly to improved methods and apparatus has been thoroughly exploded. A school of muss to train young mon to exploit for minerals, test them and work at factories for making them fit for commercial purposes in a great need, now that the country is being vigorously exploited by mining syndicates. Numerous similar technical institutions can be started year after year, if only people were estimes about the spread of technical education.

At the lest meeting of the Madras Legisla
tre Contoil, there was
The Grentin Aid
Code about the necessity of the

revision of the Grant-in Aid Code by the Gov erament with the help of a committee of nonofficials. The D P I deprecated the proposal because a few years ago a conference containing a majority of non officials did sit and discuss the question. The real vital defects that render the present Grant in-Aid Code harmful to education were not mentioned in the debate. In our view the greatest defect in the Grent in-Aid Code se at present worked is the haphazard way in which grants are given No echool can be sure how much grants it will get or continue to gat unaltered for any length of time The grants of a school can be cut away at any time What is still worse the more efficiently a school is worked, the greater chance there is of its grants suddenly disappearing. If a school increases in popularity, say in a particular year and geta higher fees than usual, unless the management spends the additional revenua immediately for some useful or useless purpose, it will lose its grants for all time. In fact increase of efficiency leading to increased popularity is immediately visited with a mechanical reduction of grants. This is not a question of efficials terries non-efficials but of red tape terries common sense. There are many other similar questions regarding the distribution of grants which the Manager of schools can give useful advice about. In fact the general principles of the distribution of grants require to be discussed from various points of view and decided before the Grantun Aid Code can be revised natefully.

Early in July next will be witnessed the nussemly sight of pupils From High School to College with their S S L Certificates under their arms flitting from College to College soliciting admission The S S L C scheme was invented for reducing the dominance of external examinations on school work Principals of Colleges have rendered the scheme nugstory by selecting pupils for Metriculation solely guided by examination murks. The result has been that schoolmasters have become lax in their marking and school boys do not care at all sbout esrning marks at school The Government of India recently congratulated Madras ourits system of School Leaving Certificate but it bids fair to degenerate into something worse than, Matriculation Such congratulation is undeserved We say something worse than Matriculation " for Matriculation marks are moderated first by the Board of Examiners and secondly by a moderating Board, whereas in the case of the SSLC the mark of a single examiner, unchecked, unmoderated, has become the ruling factor in directing the destines of our young men Will the S.S L C.

Board, or the DPI or the University Syndieste enquire into this and remedy this evil? In this connection the following passage from Lord Haldane's speech to secondary and tachorcal teachers will be of much interest -"Ooe reason why the Universities have anffered is because we have nover understood fully the augmicance in the educational system of the accordary school. In Garmaev it has been different. The whole admesticeal fabric there rests upon the basis of the secondary school The hey goes into the secondary school young, and remains there. if he goes through the fall course, for about nine years, and at the and of that time ha te so qualified that he open to the University [With ne it is regarded as a fat year, if one fourth of those that study in a VI form are considered fit to enter the University ! There is no Matriculation examination, but the student has to produce his antrance certificate showing that he has gone through the mill and has been in the atmosphere of a secondary school We have outgrown the period of the old fashioned examination What we want is a record, and averyhody who goes to the University should have that record " Here in Madras we have the shell of the German system. We have the record but don't read anything of it excent the entry examination marks! The best system loses its vitality if worked hadly

In a recent issue we gave an account of the repair of the organization of account the Matricalsking seathers as the seathers a

halding Matriculation examinations of their own, bat now it is changed. Written examination farms a part and it is hoped a minor part at the scheme. As a sop to the University the Board of Examiners will consist of four University Professors and four officers of the Department. There is no mention of school teachers as members at the Board and thus its grave defact. The Scotch system is much heister.

Mr Daniel Joces, who lectured on Phonetica and on Simplified Spell
ing, writing in the Pieces
(of Simplified Spelling),
after referring to his work in Madras, 1878

I gay tun uthers wan at Labore and the ather befor the Bombay Teechars' Asoceiaishon (held at Sur Mangalda a hons Girgaum, Bombay on Janyuari 23) The andrens at Labora numberd about then l undred nearly and being Impians At Bombay the andiene wos smanl, select-sbont siceti I shood thise, including many whist peepl. Mr Nelson Fraser Principal or the Training Cole; was in the chair (At Labore their wos no chairman) The Secretari at Bombay toeld me this was a mach larger address than real-roals assemble at the Terchern Aspes aushon mestions one on that the Indiana ar aul core com on S.S. but moest ov the Euglish perol (with a few bril ant ecsepshone) stil recwier convincing Madres in (ar ahed ov one ather senter boath az regardz fonetica and as regards SS I thing boxever, I have been sibl to pay the was for fonetice and S.S 16) the Panish and Bombay"

There is no question that in the matter of educational reform Madras is as far ahead of the cent of Lodon set is a behind head a social reform and industrial development.

The Senate bas, by a large majority, thrown out the proposal to make the study of ancient Indian literature compulsory. The real question at issue has been much darkened a

by connsel by the expedient of describing the proposal as "the compulsory study of the vernaculars." Those who advocate the measure want to destroy the compulsory atndy of the vernaculars that exists now in schools and colleges as a result of the recent reforms and to substitute for it a compulsory study of two or three ancient Indian literature. Sausknt or vernacular. The Senate has been wide awake in deeling with this question It is noteworthy among the 15 or 16 Fellows who voted for the proposal, there was not one nukka Telugn or one Canarese or one Malayalee Fellow and there was only one non-Brahman. This proves that the question affects different languages and different castes in different ways and cannot be solved off-bend in deference to the sentiments of one party. It is also to be noted that all European Fellows voted against the proposal for thay anderstand how all the recent growth of scientific work in colleges will be killed out by this proposal and education in tha Presidency will receive such a set-back that Madrae will lose its premier place in the educational world of India Unworthy suggestions have been made to the effect that the Enropean vote is due to racial hatred of the Indian languages and Missionary hatred of Indian national literature. As a metter of fact even if all the Indian Fellows hed voted, the proposal would have been defcated It must also be remembered that of the people who voted for it, there was not a sugie enneationist except Professor K. B Ramanethan. Any one that has had enviling to do with organizing the work of the Intermediate classes, nay, any one who has been maide a college ony time during the last three years and seen the equipment and the work can realize how mischievous the proposal

is likely to prove. Yet this question has been taken up by political organizations and is being fast turned into a political question. Numerous public meetings have been held, in which educationists are conspicuous either by their absonce or by their opposition to the proposal. We deprecate to introduce into the serence atmosphere of the Senate the methods of the hastians.

The following critique on the B A Telign Translation Paper by an The Old B A emmeut Tslugu graduate of Telugu Translation a quarter of a century's ex-Paper perience as a teacher, ie an eloquent commentary on the resolts of teaching Indian literature in our colleges for half a century -" I have shown the passage to a Telugn gentleman of this place who has read through the Andhra Bharatamu and Bhagavatamu any number of times and is also a poet He carved has hips over the first sentence After wrangling with it for some minutes, he said he could make out little It follows English idiom and contains an adjective in the comparative degree, whereas the Teluga idiom requires the plain adjective In another sentence where one would write ' many men,' the author of the passegs writes 'men possessing extensive numbera' It is impossible to gness from what lauguage this idiom has been borrowed" Our correspondent then proceeds to give more instances of what he "outrageously nn-Telugn ways of expressing common ideas" We understand that most of the Telogu Examiners are B A.'s and if this is the result of fifty years of University teaching of Telogn literature, anrely one should think twice before proposing to revive it. We wish the Senate bad resolved that the advocates of the proposal

should not make their speeches in English but

each in his vernacular, then there would

have been a sudden shrinkage of slequence.

The educational districts of France are

The French
Educational
Department
Department
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Department
Departmen

rectaur. There are shout iff such academies. each corresponding to the seat of one French University. These academies together form the Universite de France, rolled by the Minister of Public Instruction , hot as he changes with the changing government, continuity is secured by three permanent Liontenants of the Minister, in charge respectively of the primary, secondary and soperior educatioe. This looks like a remarkably centralized schame, but it is not half so bad as the Indian system. Here the Director of Public Instruction is the one authority on all parts of educational work-Through the hierarchy of Inspectors, Asst. Inspectors, Sub-Asst. Inspectors and Supervisors he controls primary education. He is aupreme ruler of secondary education through thesame officers or through his being the Chairman of Secondary Certificate Boards. Besides, his place is the Senate and the Syndicate enebles him to be the head de facte of University education. There is so much talk of decentralization but this is centralization with a vengeance. Primary education is for the masses, secondary for the classes, and collegiate for the few. These three have different awas and sometimes conflicting interests, they are not and cannot be three range of one ladder but three pyramids of differing beights; and unless three different men are to charge of the three, one or two will suffer, while the third may be unduly benefited. Another result of this coetralization of authority is that a man

whe nederstands and sympathizes with eccondary education is pitchforked into collegate work, another who has been inspecting primary schools for years and knows nothing of secondary schools has endedly to begin inspecting them and criticising the work of men who have been teaching for years and yet a third who could lectors sweetly on the fascication of differential equations is anddenly thread on to balance the claims of old, civilized Telingu and modern, valgar Telingu.

France is the land of so many great mathematicians that the Mathematician of mathematician of mathematician work in French achools in well worth studying. In

the primary stages, 3 to 4 hours a week are devoted to elementary arithmetical operations including the rule of three, intuitive geometry and one hour to drawing of regular figures. The next stage, called premier cycle is a cycle of 4 years end to the first part of secondary education, followed by a second cycle of three years ending with Baccalaureat. 14 to 22 p. c. of the time of echool work is daynted to mathematics. Almost all the teaching work is by means of lectures. The pupils must take notes, answer questions and he tested frequently ntherwise, so much en there is no pnessbility of " learning parent-fashion," The mnte-books are required to he "as neat as copper-plate." The kind of work done in the mathematical course of the premier cycle D is indicated in the following brief syllabus -Equations and tricomials of the second degree calculation of the derivatives of simple functions, study of their graphic and graphic representation; study of rectilineer motion by means of the theory of derivatives; velocity and acceleration; nerformly changing motion ! elements of solid geometry and descriptive geometry, plane trigonometry including the nee of 4 or 5 place logarithm tables, the collations of triangles and trigonometric equations. We call on our teachers in 10th to compare this with our O Group Mathinatics. The next higher course of Mathematics is a follower.

Arithmetic —Properties of integera, fractions, decimals, equare roots, greatest common divisore, theory of arrors, etc

Algebra.—Positive and negative numbers, quadratic equations (without the theory of magnoanes), progressions, logarithms, interest and aunuties, graphs, derivatives of a aum, product, quotient, equare root of a function, of sin s, cos s, tau s, cot s. Application to the study of the variation and the maxime and mainms, of some simple functions, etc.

Trigonometry — Circular functions, solution of triangles, applications of trigonometry to various questions relative to land surveying

Geometry —Translation, rotation, symmetry, homology and similitude, solids, areas, volumes, poles and polirs, inversion, atereographic projection, central projections, etc

Conces -Ellipse, hyperbola, parabola, plane sections of a none or cylinder of revolution, oto.

Descriptive Geometry —Rabatments, application to distances and angles, projection of a circle, aphere, cone, cylinder, planes, sections, shadows, application to topographical maps, etc.

Knematics.—Units of length and time Rectilinesr and convoluncer muton Translation and rotation of a solid body Geometric study of the heliz, etc. Dynamics and Statics — Dynamics of a particle, firees applied to a solid body, simple machines in a state of repose and movement, etc.

Cosmography —Colestial sphrre, earth, sun, mann, planets, comets, stars, co ordinate systems, Keplar's and Nowton's Laws, otcourts on the top of this is the special mathematics course

"In Algebra and Analysis we find developed, the fundamental ideas concerning irrational numbers, convergency and divergency of series, the elements of the theory of functions of a real variable, power series, their multipliestion and division, their differentiation and integration term by term Taylor's formula the theory of algebraic equations, including symmetric functions, hut omitting the discussion of infinite roots. The latter part of the course treate of differentials of savaral varishles, elementary ideas concerning definito integrals, integration of such functions as are considered in a first calculus course of the heat American colleges, rectification of corves calculation of volumes, plane areas, momenta of mertis, centres of gravity, differential equations of the first order, solutions of ampler differential equations of the second order, which occur in connection with problems of mechanics and physics. Whenever possible an the discussion of these tupics the power to work unmerical examples is emphasised.

Plane Trigonometry and the discussion of , spherical trigonometry through the law of Cosines are treated in class and five place tables are used

"In the course on Analytical Geometry is given a thorough discussion of equations of the second degree, of homography and anharmonic ratios as they enter into the discassion of curves and surfaces of the second degree of points at infinity, asymptotes, foretritinear co-ordinates, curvature, concavity and convexity, curvalopes and evolutes. The professor also discusses thoroughly the various questions connected with the treatment of quadratic corfaces and less completely, the theory of surfaces in general, of apace curves, occulating planes, curvature of surfaces. The elements of the theory of nutureal curves and surfaces and of analizements curves and aurfaces are also taken up. So also, we find brasilly arranged programmes mepped out in mechanics and descriptive geometry." When we read the account of this remarkshle mathematical training we cannot help feeling that at the Madras University we are being given but the pale ghost of education and not its reality. We also begin to radius why University education has been so haren of results from the point of view of real scholarship.

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THE SOUTH INDIA TEACHERS UNION CONFERENCE

PRESIDENTIAL ADDRESS

OF THE

REV ALLAN F GARDINER, M A

I must at the outset oo behalf of the whole Union express our sincere thanks for the cordist welcome extended to this Cooference oo behalf of this towo and district by Dewan Bahadur T Desika chariar It must he a matter of oo small gratification to the members assembled to be welcomed by one who takes so great interest in every work of public unliny and who a few days ago, as a representative of the people of Trichicopoly, was delegated to welcome the 20th Madras Provincial Cooference

The past year has been a very ootable

one in several ways in the sphere of edu The Government of India's Reso cation lution, reaffirming all that was prized by ue in its earlier resolutions, extending its good will and henefits wider still, and bolding out bright promise for the future. has inspired us with fresh enthusiasm. gratitude, and hope We welcome esne cially its declaration on the questions of the provident fund and pensions for teachers, on the extension of secondary and primary education, and above all we welcome the prominence given to the moral function of all education, for the success of any system of education can be measured only by its success in the formation of character in the taught

On these several points I shall have an opportunity of speaking later when we consider the Resolution in Conference and I must defer what I have to say till then

During the past year the Union has reexpanded and developed and it was recently hoooured by heing received in deputation by H. E. the Governor of Madras who welcomed us warmly and made a most gracious and sympathetic reply to our Address. The keepness, activity, and success of the Unioo should be sofficient to induce every member of the teaching profession to join it, and every Teachers Association to become affiliated, and in the ensuing year we look forward to a great necessoo ol strength The programme of subjects for this Conference is long important and varied, and I do not intend to make any attempt now to consider it in detail or even to review it as a whole

In the limited time now at my dispo sal I propose to deal in some detail with a question which has been vigorously (and, may I say heatedly?) debated dur ing the last few months I refer to the position occupied by languages other than English in the various courses of study at the University of Madras question has been simmering in the minds of the educated classes since 1904, when the Indian Univarsities Act came into force A very brief summary of the facts leading up to the present situation will not, I think, be out of place as they are facts that are often ignored though nearly avary one of them, in its own place, is paculiarly significant

In Septembar 1904 the University was called upon to prepare and submit New Regulations under the Act, and after some delay it submitted its recommenda tion to the Government in March 1906 In the month of December in the same year the Government promulgated the New Regulations which were substantially the same as the recommendations of the Senate with the important exception that composition in a vernacular was introduced into the Intermediate course as a compulsory subject for all In October 1908, the removal of this subject from the curriculum was proposed in the Senate The Senate referred the matter to a committee and its report recommending the abolition of vernacular composition alto gether was upheld in the Senate in March 1909 by 22 votes to 15 In May the Government refused to sanction this meas ure, and a strong reaction set in October 1909 a proposal was made to

anhstitute a compulsory course of study in a vernacular, classical or foreign language for compulsory composition in a The matter was referred to veroacular, a committee the transactions of which are of considerable importance. It recom mended that the then existing groups in & sw should be reconstructed into a single group thus enabling a student to study a language in the Intermediate course without thereby limiting his choice of a special subject in the B A Degree course to group VI Secondly it re commended the removal of the History of English Literature from the sylla bus of the Intermediate course it recommended that translation from a classical or foreign language should be accepted as an alternative to composition in a vernacular, and lastly that in this part of the Intermediata examination the minimum mark for a pass should be re duced from 50% to 40%. These recom mendations were carried en bloc, and there tha matter rested for two years March 1912 a proposal was brought for ward to substitute a compulsory course of study in a vernacular, classical, or foreign language for compulsory composition or translation in the Intermediate course and to make composition or translation an integral part of the B a Degree course. After much discussion the Senate decided by 35 votes to 24 to refer the whole matter to a committee and in March 1913 that committee present ed its report upholding the status quo, so far as the principle of compulsion was involved This report was adopted by the Senate after considerable discussion, by a larga majority I ask you carefully to bear these facts in mind during my following remarks and in all deliberations on this subject

The terms of reference of the last

named committee were that they should frame and present to the Senate any proposals that might be considered desirable in order to ensure more attention being paid to languages other than English in the various courses. The committee reported that no alterations in the direction of further compulsion were considered desirable in order to ensure more attention being paid to such languages. Perhaps, at this functure, I may be permitted a word of personal explanationnot that any opinions of mine can banf the slightest public importance hut because I believa that it will help to explain what has appareotly puzzled many of those deeply interested in the question, namely the action of sympathisers in voting with the majority. I voted with the majority for the adoption of the Report and for some time subsequeotly I contioued to receive numerous letters asking me to explain how I could reconcile my vota with my views-iu fact tacitly suggesting that I was engaged in widening the gulf that separates platform and practice-n hranch of moral, or rather immoral, engiueering which is deservedly denounced, on platforms. Personally I have never for a moment been conscious of any iaconsistency whatever in the matter. I followed with care, as far as possible, the arguments and objections of the minnrity and the arguments and replies of the majority. This was not always as easy task, for though the debate in the Senate was a striking example of reason touched with emotion it could hardly be described as an exhibition of reason in her most exalted mood. Some actually ventured to assert that the report itself was ultra eires because the committee considered no alterations in the direction of further compulsion desirable in order to secure what so many of us wish to see, as if the

terms of reference had postulated the desirability of such alterations to ensure more attention being paid to languages nther than English. I remember some years ago scare-mongers at home insisted that a tide of physical deterioration was sweeping over England. A Commissinn was appointed to consider the questinn and to recommend prophylactic and remedial measures. It reported after an exhaustive enquiry that there were no signs of physical deterioration in the English people and no one ever ventured to suggest that it had failed in its duty as a

In this case the committee merely reported that there was no desirability of making any such alterations in the Regulations. The general desirability of more attention being paid to languages other than English is of course another and n

much larger question.

Royal Commission.

In dealing with this subject I must of necessity repeat many facts and opinions with which you are familiar, but the moro I study the question the more firmly am I convinced that there is amule room still for some clear thicking and plain speaking in the matter. In the first place, though it would seem hardly credible, there has been confusion between two entirely distinct issues. I refer to the case of the vernsculars on the onn hand and of classical languages on the

[As a man of Irish descent, I can fully appreciate the truth contained in the brilliant paradox that "in the minds of the advocates of Indian languages the vernaculars include the classical languages." As an admirer and advocate of pure Indian culture I can as fully appreciate the metaphorthat "Sanskrit is the Brahmin's vernacular." hut at the same time it must be borne in mind that such forms of expressions belong to the realm rather of poetry than of plain prose, and consequently in a practical consideration of the question of the vernacular aid classical luguages all such figures of speech are best avoided as their very forces it lable to be unisleading. It must also he remembered that we are not directly concert ed with the comparative value of vernaculars and classical lan guages considered absolutely as languages, but rather with the relative importance of their diverse functions in the general scheme of studies]

I shall at once proceed to deal with the former

When the Government first considered the recommendations of the Sepate in 1906. tt made the following comment upon them "they totally exclude the verna cular languages of the country as compulsory subjects The neglect of these languages by the ordinary University graduate of the present day is notorious It appears to the Government that, if thuse who have secured a University edu cation are to do the hest for the country with the education they have received, it is imperative that they should preserve a sound knowledge of the pernaculars. With this in view and in order that a studeut may not be led to put aside the study of his mother tongue a Regulation has been introduced providing as a com pulsory aubject in the Intermediate exam ination for the B A Degree, composi tion in a vernacular

Some enthuriasts have never forgiven the formulators of the original recommendations for ignoring the vernaculars alto-other as an essential and compulsory part of their scheme and refuse, with good reason I fear in certain cases, to helice that they lave changed their opinions. But come of those who had ap-

proved of the original draft of the Regulations accepted the amended Regulations with satisfaction, if not exactly with enthusiasm, and approved the adoption of the recent report of the committee of the Senate in the helief that those Regu lations met all the reasonable demands of the minority I submit it is unressonable and unfair to suspect the supporters of that report indiscriminately of attempting to slight or injure the cause of vernaculars by their vote Nor did it seem fair to me at the time to taunt some of the leaders of the majority with being attached to institutions in which the vernaculars suffer a neglect that amounts practically to a hoycott Every man is entitled to change his views and to have such a change respected Even one of tha stalwerts among the minority was an Iadian gentleman who had taken a prom ment part in advocating the aboliton of the vernaculars as a compulsory aub ject in any form whatever but had wisely, as I think, reconsidered his opinion But among and altered his attitude those in the minority itself there were some whose attitude towards the vernaculars, in my opinion, leaves much to be desired, if it does not actually convict them of cou We who heartly sistent inconsistency welcomed the Regulation introducing compulsory composition in a vernaculas into the Intermediate course have reason for complaint at the way in which that admirable Regulation has been muti lated. Two severe blows have been dealt to the cause which we have at heart, one practically diminishing by 20% that number of candidates obhard to take vernacular composition and the other lowering the standard of knowledge 100 quired by 10% thereby diminishing the interest and the work both of teachers and of taught in the subject. In the first

instance translation from a classical or foreign language was admitted as an alternative to vernacular composition and in the second place the minimum pass-mark was reduced from 50% to 40%. We who helieve in the supreme importance of the vernaculars in University education have a very deep grievance against the instigators and perpetrators of these retrograde measures, as we consider them, and I think that this grievance deserves to be widely published. Of this I shall have more to say presently,

But compulsory composition in the vernaculars for most students is of course by no means the only provision made for the study of the veruaculars in the Intermediate course. The amalgamation of the old groups iii and iv has given students such an opportunity of making a specialized study of their veruaculars as was hardly possible under the old Regulations and they are taking an increasing advantage of this opportunity. In the two years 1911-1912 and 1912-1913, counting the students of each University year separately, Malayalam was studied as an optional subject by 515 students, Tamil by 304, Telugu by 261, Kanarese by 85, Urdu by 43 and Uriya by 17numbers which will appear the more satisfactory when we recollect that iu 1911-1912 the Senior Intermediate class was unable to henefit hy the amended constitution of graups iii and iv and as a consequence Malayalam was studied by nnly 30 students, Telugu by 15, Kanarese by 8, Tamil by 5, Urdu by 3, and Uriya not at all. In the Sening Intermediate class that year, in nther words, only 61 students specialized in the vernaculars, whereas the average number in the three succeeding annual classes, under the present regulations, bas been 388, that is, about 22% of group iii and

12% of the total, and the number is clearly on the increase. We in Trichinopoly bave little to complain of in the effect of the new Regulations upon the study of the vernaculars. About 16% of nur students have specialized in a vernacular, and of group iii alone about 28% In Madras I admit the situation is very far from satisfactory, but that is clearly not the fault of the Regulations. Only 4% of the total uumber of students in the four colleges aud less than 7% of those in group iii specialized in a vernacular, and the serinusness of this comparison will he the more evident when we reflect that in this town we are dealing with 1266 students in the lutermediate classes during the last three University years and in Madras with over 1700. The reason for this difference seems to me to be that in Trichinopoly we have deliherately set ourselves to foster and encourage the study of vernaculars, being firmly convinced of their great educational and national value, and use to the full the opportunities afforded for doing so under the Regulations; iu Madras on theother hand, doubtless with an equally single-minded conviction that it is in the best interests of national education, such study is apparently with equal deliberateness discouraged : how else are we to explain the fact that ln neither nf the two leading colleges in Madras has there been a single student specializing in a vernacular language except in the case nf six students who were studying twn languages at one of these colleges? In these cases the revised Regulation reconstructing the old groups iii and iv might never have been passed, so completely inoperative and ineffective has it been rendered. It seems to me. I confess, a mistaken policy to agitate for a recasting of the whole scheme of University education simply because in me centre it is difficult for students to seeme the full privileges to which they are entitled under the existing regulations. The remedy surely lies in another direction

It is impossible to close a consideration of this part of the subject without a word in defence of the system of voluntary selection of subjects for specialization The only justification of a specialized course of study is that it imparts a mure thorough knowledge of a subject than would be possible under any other kind the new Regulations thus eosure a more thorough and lasting know ledge of Mathematics, of Science, of History, of Logic, and of Languages, than the old, and, as I have said, I am san gume enough to believe that the improved quality of the knowledge of veroacular laoguages will more than compensate for the reduced number of studeots studying them, and I do not believe that by making a specialized course of study in a vernacular language compulsory in every case would the cause of veroacular languages or of any other branch of study be advanced, on the contrary I believe there would be a serious loss all round

I must defer considering the question of further specialization in the vernaculars in group VI of the B A Degree course till I have discussed the position of classical languages in the course of studies My contention that composition in a verna cular should again be made compulsory for all, and that a minimum in 50%, should again be required for a pass, naturally leads up to the consideration of this subject

No one I suppose will quarrel with Lowell's dictum that "the chief end of classical studies is to give a juung man a love for something apart from and

above the more vulgar associations of life -such vulgar associations, I suppose, as those of earning a living, of maintainparents, grand parents, and their immediate relations, of supporting brothers, sisters and cousins, wife and children, and of securing suitable and ex pensive sons in law I yield to no one in my unbounded admiration for a classical education, and as my own has now heen in progress for about a quarter of a century, and will continue I hope for another half, perhaps my assurance may be accepted. But it must be remembered that this love for something apart from and above the vulgar associations of his is a luxury Such love is exacting and expensive, like avary other kind of lovs with perhaps the one exception which we are told oo the best authority is the root of all evil-the love of money. This I believe at any rate the root of the oeglact of the classical studies. In reply to the question ' Are there to your opinion acy special causes deterring students from taking a classical language in group in of the Intermediate course, and from selecting group VI of the BA course?' there is almost heavenly harmony in the united response of the Principals of First and Second grade colleges, and the loud refram of their chant is 'it does not pa), though a very soft accompaniment 15 faintly heard now and then- bad methods of teaching ' Perhans however the neglect of classical languages is overrated, especially when we bear 10 mind their limited appeal and the peculiar position they hold in twentieth century educa-Since the new Regulations took effect Sanskrit has been studied by 423 students. Persian by 54, Latin by 42 and Arabic by 5 No other language except Malayalam has attracted ao many atudents as Sanskrit and here again there are prospects of there being an increasing number of candidates in the future. Still we cannot deny that we are disappointed that not more than 5% of the students in the Intermediate department have specialized es yet in a classical language. But this neglect is not due to the existing Regulations: it is due partly to caution, partly to a lack of disinterested enthusiasm for classics, and partly to inability to rise either economically or psychologically above the vulgar associations of life.

Now, in the opinion of most competent educationists, to study a vernacular language up to the standard of a University degree requires the concomitant study of n cognate classical language. A classical language can stand by itself, but not a vernacular. That should be a most important function of such classical languages as Persian, Arabic, and Sanskrit in this land, but so far Malayalam has been studied in this way only by 7, Telugu hy 6, Kanaress hy 3, Urdu hy 2, and Tamil by 1-19 in all-in group VI of the B. A. Degree course.

This is most disappointing and most disquieting. In the colleges in this town every provision is made to impact instruction in seven languages other than English in the University courses, and this I need hardly remind you involves considerable sacrifice and outlay. In the S. P. G. College we have only one student taking Sanskrit and Tamil in group VI of the B.A Degree course-a class in himself-and it is little satisfaction to us to reflect that be only student in South India who has yet specialized in Tamil for his B. A. Degree under the new Regulations. The provision of every facility to study languages is a costly experiment : it is not however a miscalculated speculation on

our part hut a calculated sacrifice. does not pay.' What is needed however to stimulate the study of the classics is not compulsion in any form on the part of the University, but sacrifice on the pert of the pareots and students-sacrifice in the interests of a love apart from and above the vulgar associations of life

I need only refer you to the columns of the daily Press and to the Home Office of England for proof of how ineffectual is the policy of the forcible feeding of adults. But the opinions of those who advocate such a course in the matter of languages ere entitled to consideration. Nothing short of a complete recasting of the whole scheme of University studies will satisfy them. The enormous labour involved in such a proceeding is of course no valid objection to such a proposal. We who deprecate it on the grounds that it is too early yet to contemplate such a drastio measure do so because we helieve that the existing Regulations, with some modification in details, provide all the necessary facilities if students choose to avail themselves of them, and hecause we are sanguine enough to helieve that they will ultimately do so in a sufficiently large number. No one I think can deny that the present courses in themselves-apart from the matter in dispute-are quite satisfactory with the exception of a few details in some of them. No lower stand-, ard of English could be accepted without deep reluctance and regret on all sides for either the Intermediate or the B.A. Degree course and it would be hardly possible to lighten the optional courses ; in fact without some very intelligent anticipation of what the examiners will require, or rather of what they will not require, one at least of them is hardly practicable as it is. If two years are just aufficient for two subjects and if a third

is to be added the courses must be extend ed for another year Are pareots and students prepared to welcome the neces sary sacrifice of time and money? I submit they are not If a third subject were added without an additional year being grented either the students woold have to suffer almost beyond endurance or the purpose of the optional courses would he almost irretrievably frustrated-unless of course the standard of the Intermediate BA. Degree examination were coosiderably lowered, in which case they would lose much of the educational importance and value now attached to them

It will be remembered however that Government to edopting the draft of the new regulations questioned the wisdom of specialization in the earlier stages of a student's education. It is true the remark was mede in connection with specializa tion in the Totermediate course, but it observed at the same time that that course wes " so fitted end edanted to the specialized plan of study as oot to admit of easy alteration without reconstituting the whole scheme of studies" The consideration of such ao alteration, I have already suggest ed, is inadvisable and uncalled for at this early stage, but I think that the question of introducing a vernacular language as a compulsory subject in the Government Secondary School Leaving Certificate scheme and of lighten ing the optional courses to it is one that is open to consideration the Government observed in sanctioning the amended recommondations of the Senate, " it is a serious question whether a more general plan of study woold not he better adapted to the youth of the students, and the circumstances of educa tion in the country at any rate doring the first two years of undergraduate study,"

how much better would a less specialized aod more geoeral plan he adapted to the vouth of students during three years preceding Matriculation, "thus securing for these young meo a wider survey of the field of koowledge before settling down to cultivate one restricted portion of it (to quote again the words of the same Government Order) I confess I have a profound distrust of the educative value of specialization in the case of boys between the ages of 12 and 16, end consequently I am of the opioion that Matriculates would not beworse but hetter equipped to attack and cope with the specialized courses in the Intermediate department if they were to approach them with a more general eod less highly specialized preperation Coold a vernaculer lenguage be excluded from a plac of studies claiming to be general in any sense of the word? And if it were included, cen it be doubted that the proportion of students selecting e vernacular lenguege es ao op thooel subject in the Intermediate course would be considerably raised? Clessical languages, for reesons which I have already stated, are vital ecough, I think, to be treated uniformly as optional through out, while vernacular composition should once more he made compulsory and a higher standard required

I feel I have trespassed the long upon your time and patience especially as 'The Madras University and Indian Fanguage's sput down on the agenda paper of this Conference as the subject of a paper and discussion. My only excuse, which lask you to accept, is that I consider this to be a subject of supreme importance and Ifelt it my duty to give it a very prominent place no our deliberations.

CHRISTINA GEORGINA ROSSETTI.

The Second Great Victorian Poetess. [All rights reserved.]

Introduction.

1. VICTORIAN WOMANHOOD.

IF with the name of Queen Elizabeth wa couple the life and growth of the English Drama, if with the name of Queen Auga we connect the introduction of fushion and artificiality into English literature, the immortal name of Queen Victoria shall be sacred to after ages for the special genins of women. This special genius of women seems to have always found a congenial soil in prose, Unless we secept the theory of Professor Skeat and attribute that heautiful early poem "The Flower and the Leaf" to Margaret Neville, we have not one good poet to name among women bafore the accession of Quan Victoria. excepting perhaps Mrs. Hemans, an imaginative hat not an Inspiring poet, and Letitia Elizabeth Landon, a fine poet who passed away hefora sha could win her lanrel. Josuna Baillie and Caroline Oliphant Nairne are nut notaworthy as poets, though the former was a good dramatist and song-writer and the lattar u fine composer of Scotch souge. Lady Mary Wortley Montague, the distinguished letter-writer of the eighteenth cantury, Misa Austen, The Broates, Miss Barney, Miss Edgaworth, Mrs. Oliphant, Mrs. Radoliffa, Mrs. Humphrey Ward, George Eliot and a host of other women have all distinguished themselves as pross writers. A few woman lika Mrs. Inchhald, Mrs. Siddons, Mrs. Jordan, Miss O'Neill have no donkt meda a name in drama as writers or actors. Poetry may be said to have attracted women only in XIX

the mamorable reign of the good and great Queen Victoria. Jean Ingelow, Miss Proctor, und Angusta Webster are very good poets. Mrs. Browning and Miss Rossetti may well claim a place in tha Honse of Fame heaide Mr. Browning, Dante Rossetti, the late poetlaurente, Matthaw Arnold and William Morrie, Mr. Swinborne hus only shown natural power of appreciation when he hua dedicated our of his volumes to Miss Christian Rossetti, who thought " in loftier strains"* than ha.

"Woman," writes Tennyson, "is undevelopt man" "But diverse ; could we make her se the man, Sweet Love were slein ; his dearest bond is this, Not like to like, but like in difference Yet in the long years liker must they grow: The man be more of women, she of man; He gain in sweetness and in moral beight, Nor lose the wrestling thews that throw the world : The mental breadth, nor fait in childward care. Nor lose the childliks in the larger minds Till at last she set berself to man. Like perfect mosic unto nobla words."†

Christina Rossetti fundamentally agreea with Tennyson. In An 'Immurata' Sister she ваув,

" Men work and think, but women feel, " Three ha draws the distinction betwee man

and woman, to ber two poems Exultate Dea and A Help-meet for Him. " Man's high degree bath will and memory,

Affection and desire.

By lottier wars he monute of prever and praise: Fire unto fire.

Deep unto deep responsive, height to height. Until be welk in white."

and "woman was made for man's delight," being his shadaw by day, his moon by night : har strength with weakness is overlaid, and

t"The Priocess,"

[&]quot;A Century of Boundels."

· World-wide champion of truth and right, Hope in gloom and in danger aid, Tonder and forthful, ruddy and white, Woman was made "

Christina Rossetti does not seem to have been enthusiastic shout women's rights as George Eliot or Mrs. Browning, or Augusta Webster, While George Eliot was zealous for the assertion of the rights of women, while Mre. Browning held

'That every creeture female as the male

Stands single in responsible act and thought As also in birth and death, " while Augusta Webster was "a vigorous and eloquent advocate of women's suffrage, "*

Christias Rossetti most modestly said, " Let women tear to teach and bear to learn. Remembering the first woman a first mistake."+

With these sentiments of Christina we may compare those of Milton.

" For contemplation he and valuar furmed. For softness she and attractive grace He for god only, she for Gud to him" !

" And bargette Were such as under government well seemed, Unseemly to beer rule 'S

The glory of Victorian womanhood may he said to lie in that the intensely sympathetic vein of the woman thinker has given great relief to the overthought of man in the Victorian Age of English leterature. While Elizabeth Barrett Browning seserted the rights of women, emphasised the responsibility of women and stamped her glorious name in her works during the first half of the Victorian Age, Christina Georgina Rossetti has given stornal name to the latter half of that good queen's reign by being the poetess of the Neo-Romantio Movement and giving a new torn

to English poetry. Where Mrs. Browning left, Misa Rossetti took up the literary life of the Victorias Age; and the very year after the death of the former, the latter's first volume of poetry 'Goblin Market and other Poems" asw the light of the world.

II CHRISTINA ROSSETTI-THE SECOND GREAT REPRESENTATIVE.

When Mr. Patchett Mertin etated in an article that of the two (Mrs. Browning and Miss Rosectti) she herself was " the greater literary artist," Christina wrote to him -" Yet all said, I doubt whether the woman is born, or for many a long day, if ever, will be born, who will belence not to say ontweigh Mrs. Browning." *

And yot all said, a consideration of the works of Christias will show beyond doubt that Christins has belonced and perhaps even ontweighed Mrs. Browning It will be econ that the poet who

" with stammering lips and insufficient sound " f strove, and etrove nobly, " to deliver right" the masso of her nature is equalled, if not sprpassed by the post who

" with love to all the booutiful "

strove " to do well," the post who with childly lispings to her dear mother in numbers at the tender ege of twelve end with e simple hymn

> "To the God whn reigns on bigh, To the elerus! Mejesty,

To the Bleesed Trinity "

went abroad and tought all men thet "Love reigneth high and reigneth low and

reigneth everywhere,"\$

^{*} Ball-Christina Rossetts, p 111. † Later Lafe

¹ Per. Lost. Book IV.

[&]amp; Par Lost Book X

^{*} Bell, p 93

t "Tue Soul's Expression " Lance to my Grandfather

[§] Love and Hope,

the poet whose two motive-powers were "religion and affection" and the poet of whom Swinhnrne saug

"From love lit thought's remarmoring cave
The notes that rippled, wave on wave,
Were clear as love, as faith were strong;
And all souls blessed the soul that gave
Sweet water from the wall of song."

The life and work of this noble lady, who is the second great poetes of the Victorian Age, we shall now proceed to consider.

I.

BIRTH, EDUCATION, EARLY POSMS. (1830—1847).

Christina Georgina Rossetti was born no the 5th December 1830. She was the fourth and last child of Gabriele Ressetti and Frences Mary Lavinia Polidori, Gabriele Rossetti, " the seer of the Italian re-arising "t was an earnest student of Dante, and in the words of Professor Francesco di Rosso, was "the Tyrimus of the hattles of the Italian liberty, nnity and independence, the poet sacred to Italy and Europe, labouring noder tyrnnay, under political and religious reaction."! He was a freethinker aed a freemason. Frances Mary Lavinia was a deeply religious woman, a cultured lady, a devoted wife and an affectionate mother. Simple by nature, she abborred gossip and trained her children in her own way. Their first child and daughter Maria Francesca, born in 1827, the most practical of Gabriele's children and avery devotional woman is known to ne as the anthor of the highly-valued manual, "A Shadow of Dante," In the opinion of her gifted sister Christian, "If Maria Francesca had been her younger

instead of her elder sister, she would have become celebrated," and " she was prevented from achieving same only by "religious scruples and domestic cares." In Time Flies and The Face of the Deep Christina speaks of her sa "one of the most gennine Christiane" and "a dear saint" who pointed out Patience us the lesson taught in the Book of Revelation. Dante Gabriel Rossetti, horn in 1828, Maria's younger brother, is well koowo to us na a distinguished poet and painter, and as the starter of the Pre-Raphælite Movement in Art and Letters. He was an estist of whom Ruskin said, his "name should be placed first on the list of mon ... who have raised and chonged the spirit of modern art ; reised in absolute attainment, changed in direction of temper." He was a poet of whom Swinhnrne said, "Among English-speaking poets of his sge, I know of none who can reasonably he said to have given higher proof of the highest qualities than Mr. Rossetti-if the qualities we rate highest in poetry be imagination, passion, thought, barmony, and variety of singing power."1 Quite unlike his sister Christina io many ways, he seems to have been greatly influenced by "the hearty of Christina's life and her religious system." William Michael Rossetti, the third child of Gahriele Rossetti, born in 1829, is known to us as "bia brother's careful and accomplished biographer,"il as the equally careful editor of hiasister's l'oems. as the accretary of the Pre-Raphalite Brotherhoed and as the editor of "The Germ." the short-lived literary organ of the Brother-

A Ballad of Appeal

[†] Family Letters of Bosetti. Vol. I. p. 18.

² Ibid, p. 17.

⁴ Bell, p. 57.

^{† &}quot;The Easter Art Annual," 1902, p. 1.

Family Letters of Danie Rossetti, Vol. 1, p. 432. & Watte-Dunton. The Athenmam, Feb. 15, 1595.

I Eng. Men of Letters, Rossetti, p. 6

hood As is natural to expect, the two sisters grow like "frosh violets opened at dawn," "roses northered by the certicat hreezes," and "lovely turtle doves in the nest of love," and the two brothers grow

A pair of Brothers brotherly Unlike and yet how much the same

In beart and high toned intellect
In face and bearing Lope and aim †

The family 10 which Christins was been was of a distinctly literary torn of mind It was besides wholly Italian in character Gebrusio Ressetti was wholly Italian, while Frances Mary Lavins was half Italian on descent. The friends of the family were also Italian wholly or almost so, the only English family with which the Rossettis were well sequented heing that of Mr. Ciprian Potter, the pinnist

The Rossetti family was transplasted in Edgland in 1824, as a result of the revocation of the constitution of 1820 by Fordinand I The connection of the Rossettu with England is only of a recent date. However we are told by Lord Clarendon; of a Count of Rozettu who lived in London 'in great port' in the days of Charles I as a public agent from Rome.

The Italian instituct for art asserted itself end Christian turned to the art of Panting for a time as did her brother Danto Gabriel throughout life. The letter always considered, says William, that, "had she obsers to study and take paies" she "might have done something as an artist" 3 At any rate her artistic taxts is seen in the derivous she made for same

Christina had no surt of systematis educativa, but she had all the advantages that he in there members of the family had and a to a sidednosted. She knew Itelan and Fronchkerty well, and she penned Italian verses as et will as she did English ones. She knew also, a little of German and Latin. The Bible formed the text on which she hased her message to the world. She was a close student of the Apocalypse Dante, the one favontre andro of the family was size her moch-admired post. Maturn'a "Melmoth the Wander," which held Dente Itasetti spell bound, attracted also

of her poems The literary inclination of the family from the beginning made Christias not unly take to reading books, though not very widely nor even regularly, unlike her brother Dante, but also to versifying from an cerly age "scropulously" rejucting "all assistance in ber rhyming efforts, under the impression that in that case they would not be her own" as her mother put it * The deep religious nature of her mather and the corresponding training of the children is distinctly noticeable in the religious note of Christian's nosms, and to her over-present belief in the Lord Jesus "The Christian ides is essentially feminioe," tags Mr Watts Dunton, "and of this feminine qual ity Christina Rossetti's poetry is full." The tin of affection that bound closely the Rossetti family accounts for the vem of affection in The writer shovemeoher life and work tioned says that " all that is noblest in Christion's postry, an ever present sense of the beauty and power of goodness, must surely have come from the mother, from whom also came that other charm of Christins'a to which Gabriel was peculiarly sensitive, her youthfulness of temperament."

Ball p 7

[†] Portraute

[‡] H at of the Rebellion, Vol 1 p 263 Clarendon Press Edition 1826

[§] Poetical Works p 464

^{*} Poetscal Works p 464 † The Atheneum Feb 15 1896

the fancy of Christins. Both brother and aister also drank deep of the Arabian Nights' Entertainments. She had a partiality for Metastasio. She knew Tasso and Petrarch. Of the ancients she knew Homer and Plate : of the moderns, she inved Shakespeare and liked Scott. She had a fondness for Keata and Shelley. She read also Tennyson and Browning. Mrs. Browning's poems she read and admired, though she was never acquainted with her person, and she even for a time had an idea of writing the life of "that great poetess and levable woman,"* She was wellacquainted with Swinburge. Thus it will be seen that her literary taste was considerably well formed. But it had little or no influence on her creative capability. From the beginning she was conscious of her poetic powers : she had not that feminine virtue, if it he a virtue of diffidence, of which Mr. Leslie Stephen speaks in his admirable volume on George Eliot.†

As Mr. Nab says, "the postic flow was apontaneous," and was an atural as the notes of the nightingale or the perfume of the violet. But this sall-consciousness did not breed in her arrogance or self-conceit. Spontaneity did not make her Muse limp or leap. She would not go shout hunting for eabject. The subject must present itself to her. When she had a fit subject, the form would come of its own accord. She would dash off in feverish haste what was uppermost in her head and endonst in her pen. One sounct, we are told, she wrote off "in this she fulfilled the two great conditions af all

true poetry, a fitting conception and a ready expression. She believed in inspiration being the sins qua non of creative poetry, and she was an "inspired author." * In his "Reminiscences of Christina Rossetti" Watts-Dunton says "of all contemporary poets, she had seemed to me the most indubitably inspired. I had made a life-long study of poetic art, yet Christina's art secret had befiled mo..... her inspiration was not that of the artist at all and set that of such dramatic passion as in the other postal had bern accustomed to, but the inspiration of the religious devotec."

The very first verses that Christian wrote were the simple liors addressed in her twelfth year to her mother, on the anuiversary of the latter's hirth, 27th April 1842. Her second matrical effort was a short patriotic poem, satitled The Chinamon. Such a poem, is rare among her works, as such a conception is itself rare in a family settled in a land of liberty and breathing in an stmosphere where

"The wer-drams throbb'd no longer and the battle flags were juri'd."

The occasion of this short porce was the Auglo-Chineso Opium War. The simple Hystan fleet thirteenth year may indeed he said to be the fountain-head of the mellifluons lifelong current of Christian's devoltional poetry. The four verses called Mother and Child, in which the innocent child thinks of heaven where "the flowers never fade" and where "never sate the sun," and would go there even now, are very fior, and Danto Gabriel truly said "Blake flught have written "f three. The conception of Mary Mandalens

^{*} Bell, p. 90.

[†] English Men of Letters-George Eliot, p. 52.

Sonnets to Bouts-rimes 1 and 9. Poetical Works, p. 490.

J. Kuight-Great Writers " Rossetti," p. 13

[†] Nineteenth Century, Fab. 1895-

Sharp. "Atlantic Monthly," June, 1895. " Soms Reminiscences of Christina Rossetti."

coming "in deep repentance" to "the King of Heaven," reporting of her sun and being forgiven because of the love she bore to Him, corresponds to ber brother's picture and sonnet, where Mary goes forward to meet the Bridegroom saying

" He needs me, calls me, loves ma , let me go."

This mutual bond of love between Earth and Heaven forms the keynate of Obristian's whole philosophy This love embodien The Martyr to go forth with her check "glowing with a clorious red" and meet Death,

Satzefied with hopeful reat and replete with

It is this bond of love also that susbles the man "with a steadfast face" to fight holdly

with the lion, for
"God looked down spon me from the heaven shore
And I did not tremble, happy in His love" †

And I did not tremule, happy in his tore: T the love of Him, who is pionsly and fearfully represented in Resurrection E.e. Of the love of Heaven, che thus speaks in Love and Rope and Charsto

- Love for ever dwells in Heaven.-
- Hope entereth not there
- After this bleak world's stormy weether,
- All, all, esva Love cloue, shall die.

All, all, eava 1:270 elone, shall die, For Faith and Hopesball merga together in Chursty.

Compare with these the lines in Sing-Song,

'Hope is like a herebell trembling from its birth, Lova is like a rose the joy of all the earth,

Faith is like a lily lifted high and white, Love is like a lovely rose the world a delight

The vanity of earthly love is described in Love Ephemeral and Love Attacked Earthly love is but "the essence of restless woe." still

"Hoth fools and sages Have felt its power,

In distant lands and ages '

- Mary Magdalene at the door of Simon the
 - † I Have Fought a Good Fight

The secret of this possession of love is unknown, and yet one cannot be indifferent to it, for

* Though Love may not be free Always from a tent of griof, If its sting is vary sharp, Great is its relief. *A

Love abe says, to all happiness, all hearty, the crown of flaxen heads and heary, the only everlasting duty.

"And Love is chronicled in endless etery, And kindless endless glory"

And thouse eagles girly.

Chrestina had a kyrn eye for enjoying the beauties of Nature, though she was city bors and city-bred. With fancy clear, she took in all beauty with an easy apan. Her Louis to My Grandfather written in her fifteenth year testifies to this, Her description of Nature's beauties in this piece is as exqualite as its childles. She is more than a girl when she makes the whole nature sing "the song of greating," welcoming sweet Sammer in, Sammer

With roses for her crown

With presamine and myrtle,

Forming har fragrent kirtle, \$\frac{z}{2}\$ and compring to bind her as see lies, with a chain of bind and blossom lest she should condenly fly away. When she finds to condenly fly away, When she finds to consider the control of the control of the comportunity to enjoy a single center might \$\frac{z}{2}\$ and calle her companions to wander forth with her and enjoy the calm night and the heatites of Nation at an Ontario at an interest and the control of the control of the calm night and the heatites of Nation at an interest and the control of the calm night and the heatites of Nation at an interest and the calm night and the heatites of Nation at an interest and the calm night and the calm night and the heatites of Nation at an interest and the calm night and night night

When the a rains of love bave chiefly power!
When the maid looks forth from her letticed
hower.

With a gentla yielding smile, Donning her mantle all the while."

· Love Defended

† Keata "The Human Seasons "

& Serennde

In Earth and Heaven sha sees bow "of heauty earth is full," but soon finds that "In Heaven is Love" which is far above Earth's fleeting joye and heauties. This is the conclusion to which she is inevitably led at an age when she may be expected to like what is of earth in preference to or in ignorance of what is of Heaven lying behind the naselved and unsolvable mysteries of life. Naturally than does she exclaim in The Time of Waiting.

" Life is fleeting, joy is fleeting. Coldness follows love and greeting, Parting still ancceeds to meeting," and concluda

" For Christ's guiding love elway,

For the everlesting day, For meak patience, lat ps pray."

She now finds solace in solitude, "Happy solitude." "Most blessed solitude."* The critics who interpret this saintly yearning of hers as the expression of a diseased brain, would not feel so if they saw that The Last Answer to all queries of the phantom of Life was that "love sod hope are fallacies."

The post who proved the ephemeral nature of all earthly love, the post who saw clearly

"Old Time flies fast upon his way,

And soon will cesse the night and soon will dawn the day; t the post who saw the fleeting nature of joy and the frailty of love, when Death could snatch away the bride

" With her bridel robes around her." I

the poet who, trying to find oot whether life was lovely because of its goodness, or gladness, saw pply

how in all things.

"Tin more of ain and asdnese: Nay, of weatiness 'tis more ; "a

the post who very realistically described the sorrow involved in The Time of Waiting, a time full of seeming joys and lasting sorrows; the poet who in The Dead City anw an nurreal scene of the sceming realities of life, got afraid and "straightway knelt and prayed;" such a post could not but long for Rest.

" Be it sleep or be it death," +

"Weary of fife's passing show, Its pageant and its pain."

With this eye she looks at The Solitary Rose;

with this realisation she sings The Song of the Star, Spring Quiet and Wishes. In The Duing Man to his Betrothed, we

hear the dying man saying that love on sarth in "sweet poison, sweetest death," "honey between serpent's teeth," and turning to Christ" the gate of Heaven." In The Dend Brids she comes to this conclusion :

" Happy bride if amgla-hearted Her first love to God was given t"

Heart's Chill Between and Death's Chill Between exactly represent the poet's mind and the line

" Death is his, and Death slopa"

in Night and Death is very striking. Because of this self-isolation, she finds The World's Harmonies in that voice sweeter than the voice of the whole world.

> " That crieth at the golden door And gaineth entrance in."

In her early verses "the richness of her vision was already faintly prefigured."! Her little piece on Charity is more appealing,

[.] The Dead City.

⁺ The End of Time.

¹ The Dead Bride.

[·] Present and Future

t The Dream.

I Enc. Brit. Vol. 32, p. 298,

though less imaginative, than George Herhert's "Virtue," which she imitated in this poem Cardinal Newman's "Consolations in Bereavement" is not half as philosophical as Christina's Burial Anthem written at fifteen on the occasion of the hursal of a young clergymac. The merry description of a summer night in Serenade contrasts well with the gloomy ondertone of Matthew Arnold's "Summer Night" While Christion's Elegy on the Death of a Cat in posther so imagnostive as Grav's lines " on the Death of a Favourits Cat. drowned to a tub of gold fishes," nor so "highly serious" as Matthew Arnold's "on the Death of a Favourite Canary," while her elegy for which she invokes the Muses to come chadient to her call and

" Moorn with toosful breath Each one for a separate death."

is not worth the name of an " elegy," at any rate the simple conception of the occasion and the solemnity of the last lines are worthy of the poet, who had great love for animals. Though the simple description of The Lotus-Enters cannot stand beside the beautilal lines. of Tennysoo, the fine and close description of The Dead City and the garment of mystery that her round the whole conception of the city with the solemn acenea present before the rambling visitor, the banquet that is no more real than Bermecide's feast, and the eighte of meo, women and children that in a trice turned to stone, can be placed bearde than eweet description of "The Deserted Garden" ol Mrs. Browning or "The Deserted Village" of Oliver Goldsmith

One wonders indeed how Miss Ressetts could, with her calminess of mindeed serenity of temper, cooccive such a horrible picture as that in her Will these Hands ne'er be Clean? The lines

"The air shall smell of blood."

· Earth aball be hell and broath vengeance"
mey well be transferred to Shakespeare's

mey well be transferred to Shakespeare's "Macbeth." Macbeth might wall have said, "I em not changed," sod turned away for shame and repentance.

We may mention here the fine pieces Tasso and Leonora, Eleanor, Isadora, Zara and Lady Labella which abound in fine descriptiva touches The descriptions of Eleanor and Lady leabel may well he applied to Christian bersel! She had

- " A lorebead high and white
- 'That spoke a coble mind, '
 she had all the qualities which become a
- woman well, she had "a perfect form, a perfect face" and
 - "If she sang or if she spoke
 "Twee music soft and greed
 As though a distant storing ses
 - Broks oo a tunefol strand;
 - As though a blessed Angel
 Were singing a glad goog.
 - Heliway between the Earth and Heaven Joyfully borns slong '

Speaking of Christians's Early Poems, her begrapher says, "They have distinct origins ality of conception and of presentation," certain indefinable alonfaces from the objects described, while, at the same time, they manifest a remarkable channels in the delimentum of these objects, conjointly with amonttemposity of UNIVERS, OF UNIVERS, OF UNIVERS.

N. K. VERKATESAN

(To be continued.)

[&]quot;Mackenzie Bell " Christina Rossetti," p 193,

SPELLING REFORM.

ITS SPECIAL ASPECTS.

The following is from the Secretary of the Simplified Spelling Society, 44, Gt. Russell Street, London, W. C.:—

DERHAPS the most interesting feature of the propagandum of the Simplified Spelling Society-of which Professor Gilbert Murray, formerly of Glasgow, and now of Oxford University, is Precident-is its Imperial aspect. Significant light is thrown on the problem of English spelling reform by the situation in South Africa. There in recent years a simplified spelling of Dutch has been nuiversally adopted in the schools. Important information as to the effects of this new departure is given in a pamphlet written by Mr. Joseph Hogarth, Johannesburg, which is published by the Simplified Spelling Society under the title of "Simplified Dutch v. Complicated English in South Africa." The general trend of the pamphlet may be gathered from a short quotation which summarises the views Mr. Lub, teacher of languages at Transvasl University College in Johanneshurg. The passage is in the "Nyn Speliog" which is being advocated by the Simplified Spelling Society. I am spre that most of your readers will agree that it can be quite easily read, though I expect that there will be a tolerably general concensos of opinion that it is very ogly. That is a matter that I should be very glad to discuss with them some other der, but is the mospiline I wish to confine myself to the Imperial sapect of apelling reform and must not wander from that issue. Mr. Luh says :- "Datch children non laru tu reed with grait erz and rapiditi ; hat the fasiliti ov lurning tu reed iz not hi eni meenz the crossing glori or the sys method. Thai

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now acwier et zili and cwicly an art which, under the neld stiel, wez anlwaiz long and teedins ov acwizishop paimli, the art ov composzing and rieting a leter. A chield no longer trablz hiz had with desieding whether a particuplar word iz to he spelt with won a or with to a'z or with wone or tu e'z: for it is won oy the nyn runtz that the forst dobl leter shal he the end ov its oen silabl and the second the begining ov a nyn wuo. lodeed, the chield doz oot ceven hav to thino short letera at sul; and hiz micod, being entiorli releave from the meer mecanics oy speling, iz free to concentrait its ful pousr upon the iedean which he wishen to respres, Dutch teechers ar enthypziastic, for their efichensi iz graitli increest, anaibld to import a much graiter amount ov edvacaishon : for the tiem which was hitherta devocted to the drujeri ov spaling iz oon availabl for teeching the byntiz ov their langwij to their pyupliz and for ilyumining

their miends with the list or other polei." While the Dutch schools in South Africa are becoming more efficient, the English schools are decemerating and that degeneration is specially marked in the teaching of English. The School Inspectors are particolarly insistent in their complaints about bad spelling. This is a point of which apelling reformers would not be disposed to lay much stress. They might say the worse pupils spell the hetter we are pleased, as the obvinua and easy remedy is the introduction A bound we willing to metage launitan a to much more serious matter is the slovenly way in which English is prononoced by the hoys and girls in the South African schools. Io the opinion of competent educational esperts English in South Africa is rapidly degenerating into an uniotelligible lingo, and fears are

serionaly entertained that within two or three generations English es it is spoken in South Africa will not be understood in England In the interest of clear English speech many of the British colonists are strongly in favour of spelling reform. Alarm is also naturally felt at the progress which Detob is making at the expense of English It is true that while men in South Africa are, as a rule, less or more bilingual, English in taught as a lesson in all Datch echools though Dutch is the medium of tuition, and in the English schools Dotch is taught as a lesson, English heing the medium of tuition. For ressons that seem sufficiently obvious, South Africans of Dutch descent, as a rule speak English better than South Africans of British decount speak Dutch Thu struggla between Euglish and Dutch in South Africa is as to which shall he the predominating tongge in the homeland, as obviously both Boer and Briton will at least find it advantageous to use the best standard English that they can command so their communications with the outside world English is the natural second language of the Boer, and feeling the advantage of simplified spelling in his own language he is strongly in favour of English spelling bung reformed on similar lines at that his children may be able to acquire English more assily

In Aostralia and in New Z-alsaud there are similar compliantle shout the weakensa of spalling in the schools and, about the sloven articulation of English, and a growing diaposition is abown in favour of spelling reform as a step towards clearer English speech A moderate measure of spelling reform the already secured the approval of some of the addensional authorities in Anstruka, and it is expected that others will follow as no distant date.

Public opinion in all parte of Canade, where there is sufficient lessure to attend to such matters, se strongly in favour of spelling reform One of the most recent indications of this is the formation of an influential branch of the Simplified Spelling Society in Ontario Oat West where towns are springing up with startling rapidity on the prairies the people all act on Principal Sir James Donaldson a advice to the British Association and spell as they please Naturally they have no time to trouble with dictionaries or grammare, and they are quite satisfied with any spelling no matter how ngly it looks, if it has the one redeaming feature of bung intelligible I do not suggest that the men in their shirt alsayes, who are making the Wild West erable and fertile, are necessarily the best judges of delicate issues in old world calture, but I think it perfectly aafe to assume that they would almost to a man support the Oxford and Cambridge done of the Simplified Spelling Society in their demand that English should be spelt by sound and not by sight

The bearing of English epelling reform on the position of India is by far the greeter part of the Imperial aspects of the problem India is not a nation but a great aggregation of natives with bundreds of diverse languages and religious. The only point that all the races and religious represented in the hundreds of millions of our follow subjects in lodis have to common is that they, like us, are under the bange away of His Mejesty George V It is obviously desirable that there should be some bond of union smong these wast and diverse populations such as might be found on the oursersal use of Luglish as a second language Everywhere in India where the intelligence of the native races has been roased there is a keep and growing desire to

learn something of Western ways and Western culture, and the natural medium for conveying such knowledge is the English language. Natives of Iudis are learning English in greatly increased numbers, but they find our system of spelling a serious obstacle. The educated natives of India are often most enthusiastic spelling reformers. One of them writing recently in a Madraa paper says :---"Perhaps the reason why the average man loves the absurd English spelling is that it costs him many tears to acquire. No one likes to give up a bard-earned object, so the average man stinks to the absurd English spelling driven into him by raps on his knnckles and other parts of his body. " This gentleman, who has lectured on English literature with acceptance in high-class schools and colleges in India, confesses that even now when writing English he has to keep the Concise Oxford Dictionary at his elbow, and has occasion to consult it frequently to make sure of the fashionable spelling. He also mentions that his son, who has quite an exceptional knowledge of English literature, is seriously handicapped by a constitutional inability to master the existing system of apelling English. He has in consequence heen nuable to pass his graduation examination. All this, however, hardly touches the main issue, which is that thousands of natives of India, who are exceedingly auxious to learn English are deterred from making the attempt by the difficulty of mastering our chaotic system of spelling, which acts as an impassable harrier to our otherwise easy language.

Any of your readers, who desire further information regarding the "Nyu Spoling" can obtain a anpply of apelling reform literature by writing to the Secretary of the Simplified Spelling Society, 44, Great Russell Street, London, W. C.

THE MADRAS EDUCATIONAL RULES.

I'T is more than four years since these rules wore revised and educationists connected with schools and colleges are strongly of opinion that they should undergo further revision to meet the present useds. The modifications approved by Government from time to time and embodied in these Rules are the suggestions of a Committee composed of all the Inspecting officers and two nr three of the Managere of Aided Institutions with the Director of Public Instruction as Chairman: and hence these changes are often ons-sided, The Government in appointing such a Cummittee should take into punsideration the most important fact that there are more institutions under private management than under Government or Local Boards. It would be well therefore if Managers of schools under private management could be invited to become members. But as this would be unwieldy, impracticable, and expensive, the Government before revising the Educational Rules abould call apon these gentlemen to aubmit their views and anggestions to the Committee for their consideration : on this Committee institutions nuder private management abould be strongly rapresented; there should be as many of these as there are Government officials. Either before or after such revising, preferably the latter, the Rules should be circulated among the leading Newspapers for criticism.

The rules for the recognition of schools are very stringent, no difference being made between sided and unsided schools. The general conditions for aid are clearly laid down in the Grant-in-Aid Code and it is reasonable to expect such schools as receive a grant from Government to fulfil all the conditions But why should Government enforce the eame conditions on schools that do not receive or care to receive any pecupiary help from Government? The country needs more elementary schools that can afford to be independent of Government, why should such schools be hedged about hy so many laws and regulations that press hard on them and retard their expansion? Liementary achools, tsaching a vernecular language only or usualy, have no need to he recogpreed But if in such schools Eaglish is taught side by side with a vernacular, they ars doomed, Rule 7 says "That students in nurscognised institutions will not, unless it is specially so ordered, he admitted to the privileges accorded to students of recognised institutions. "

What these privileges are the rales do not enlighten as We ho vever gather from elsewhere that a student of an unrecognised echool will not be permitted to appear for the Secondary School Leaving Certificate Public Exemination and hence he is debarred from entering Government service. Pupile of Elementary Schools are of too low a standard to appear for this examination even if they are recognised, and where then comes "the privilege accorded to students of recognised institutions"? It is chiefly because elementary schoole are hampered by restrictione laid down by Government that education has not spread among the masses Messonary and other societies wish to open an elementary echool in every village and teach boys up to the seventh standard , but they dare not do so, because of the unnecessary inter-

ference of the Inspecting officers and the conditions of recognition they are compelled to fulfil, viz . (1) the teachers should be of proved ability or should hold trained teachers' ceruficates, and if the school has standards above the fourth, the headmaster should hold a Secondary Trained Teschers' Certificate, (2) there shall be at least one regular teacher for every fifty papils on the rolls, (3) the building should be suitable, (4) only books approved by Government shall be used or even brought into the echool, (5) the schools should mainten five kinds of reguters m the prescribed form, which should be countersigned by every Inspecting officer that waste the school, (6) tame tables shall be drawn up in consultation with the inspecting officer, (7) the school shall follow the schame of studies issued by the Department from time to time

What benefits does a school derive by fulfilling these conditions? Besides how diffi cult it is for a school to be recognised? The power veste in the Inspector who acts on the recommendation of the Sub-Assistant or the Sepervisor of Schools The Inspector has the power of refusing or withdrawing recognition on account of the employment in echnolof any teacher whom he constders unfit to be a teacher although the Manager may have found bim fit and employed him The Manager has to lay out s lot of maney to falfil the conditions of recog mitton, with limited means at his disposal he as soldom or never able to meet all this expenditure. A child should have full play for his limbs if he is to develop into manhood, hat if he is chut up as Jack-in-tha-box he will be stanted in growth. Similarly if elementary education is to be entrounded by so many unnecessary restrictions, it will never spread among the massea. When the Government sides echool with a grant worthy of the name—and not with the paltry sum of Rs., 36 per year, and eight annas per year for each pupil,—then and then alone should the Government insist on the nonditiona being faifilled, hat not for mere purposes of recognition.

If, as we pointed out above, the rules for the recognition of Elementary Schools ere very stringent, those for the recognition of Secondary Schoole are still more so. Chapter III enumerates these conditions and we have nothing to say against the rnles leid dawn in Rule 22, that a school before it is recognised should be conducted on approved methods, that there should be need for its existence and that it has funde to fall back upon when the income from fees falls ebert of the expenditure although the standard rate of fees may be levied and finally the managing body should consist of respectable and responsible man. Half these rules are avidently aimed at schools started by men known as Teacher-Managers, who like parasites subsist entirely on the fees paid by the scholars and caucot afford to lay out any portion of the feeincome on invniture, apparatus or buildingechools that sprout up like so many mushrooms after a shower of raio, and draw away the pupils of well-conducted and longestablished schools by the offer of reduced fees. The Department has done well in out conntenancing the growth of such ephemeral schools.

While it is but right and proper that badlyequipped schools under Tracher-Managers should receive no encouragement from the Department, obstacles should not be thrown in the way of the expansion of Secondary oducation. It is not the one difficulty that Secondary Schools have to cootend with.

The first and foremost is the role that requires that "the Headmaster in every Secondary School and at least three other teschers in the case of schools containing all the three Forms IV, V, and VI should ardinarily hold Collegiate Trained Teachers' Cartificates. The other tenchers should ordiparily hold Troined Teachers' Certificates of not lower grade than Secondary," Although the severity of the rule is somewhat moderated by the use of the word "ordinarily," most managers find it impracticable to comply with the requirement. They may be willing to employ trained teachers at great cost, but from where are they to procure them when the supply is not egoal to the demand? Not very long ago there were two colleges for manufacturing trained graduates; but the Rejshmundry College baving been abolished, there is only one at present, and the admission into it is limited to a select few. It is trne there is snother at Trivandrom: but it need not be taken into consideration as it is solely maintained for training students of Travaucore, Is it possible for one college to send forth enough of teachers and lecturers for the fourteen first and twenty-nine secondgrade colleges and 275 high schools that belong to this Presidency? If on the average at least one trained graduate is required every year for each of these institutions to fill an vacancies, the college should annually produce as many as 300 trained graduates | Before the Department could strictly enforce thn . rule, at should be in a position to sopply the colleges and schools with the required number of trained graduates. To do this more training colleges should be opened at important centres and more scholarships should be offered to induce graduates to join them. If this is found too expensive for

Government, managers of educational institutions should be compelled to pay for the empport of the teachers they send for training, for this training is for the hencils of their news schools rather than of the Government

As there is scarcity not only of transed graduates, but also of trained undergraduates, training schools should be opened in every district without pay excelling, where Matriculates and Intermediate candidates may be trained as teachers. The other teachers," says the rule quoted above, "should ordinarily hold trained teachers' certificates of not lower grade than secondary " Besides the VI. V. and IV Forms, there are the III. II and I Forme, and IV, III, II, I, and Infant Claeses, divided into three or more sections At least twenty-foor trained teachers are required for each achool. To provide these soboula with trained teachers sa required by the rule, there are at present only two training schools. We are aware there are in almost every district framing echools for elementary teachers The hest plan would be to rates the standard of these schools and admit under-graduates and train them as tenchers. As it would be highly expensive for Government to give these wen scholarchipe while they are under training the best course would be for the Department to maset on the managers of the schools that send these mee for training paying for their emport. The headmasters and teachers of the elementary achonin have very little work to do, they have to train only a handful of men. As the headmasters of these echools are mostly trained graduates they are quite capeble of undertaking the training of under-greduates.

If the plan we have suggested is found to be too costly for Government in undertake, the Danartment would do well to revert to the old enstore of holding an examination for teachers in the method of teaching, a different one for each grade, to be conducted by a Board of Examiners appointed by the Department as a being done in the case of European Schools Only those who have been teachers at least for two years in a recognised school aboold be permitted to popen for this examination, and those who exceed in passing the writen test should undergo a practical test in teaching. In almost all achools there are still to be even toechers who so days of old passed this test, and are doing well in their profession. They were not trained in "a Normal School," but they have gamed a four knowledge of their duties by a study of the latest hooks on education and by learning the latest mathed of teaching from those shove them Why may not the Department revive the old system, that has given the Madras Encational Department well quelified teachers, who have shone in their profession ?

In this connection we must protest atrongly against certain privileges conceded to tha members of the Society of Jesus and other Roman Catholio bodies, as enemerated in Rule 24 of the Educational Rules Why these and no other Missionary bodies shoold be granted these privileges to beyond our comprehension. There are several Missionaries and lay workers of the Protectant nersussion who underwent training in Theological Col legen to Eugland, America or Germany, now working in connection with schools and colleges in India. All European members of the Society of Jesus and even entire members who are graduates or under-graduates, if they are certified by the Saperior-General of the Mission to have completed their unvitiste

and inniorate or to bave completed the full course of study, may be ranked as if they beld collegiate trained teachers' certificates and native members who are under-graduates and who are similarly certified to have completed only their novitiste and juniorate, may be ranked so if they had held Secondary Trained Teachers' Certificates. Why should the Government make such an invidious distinction between the Roman Catholic and Protestant Missionary hodies? There are a good number of Protestant Mission schools with missionaries as managers, who devote more than two hours a day to teaching seenlar enbjects. But as they do not in all cases possess a University degree, they are not recognised se beadmasters and hence they are ubliged to employ an Icdian graduate in that napacity. This adds greatly to the coat of the staff. As there are several Protestant missionaries, who have undergone training in the Theological Colleges of Canada, America, Australia or England, some of whom also possess University degrees, Government should recognise their certificates as equivalent to college trained certificates. This is what one naturally expects from an impartial Government.

The roles for the admission and withdrawal of pupils, Rules 43-58, require a thorough revision.

Rule 43 requires a verbal alteration. All such letters of application should be ult such applications for this rule requires "an epphoation and not a letter."

Rule 47 should be made more accurate in wording. In Rule 5, a distinction is drawn between form and class, the higher classes being designated forms and the lower classes. This difference is thoughtiessly ignored in the troll. As a Sonnday school contains both forms and classes, the wording should be (C) the form or class in which be studied at the time of leaving it, and (D) if he base completed the course in that form or cless, whether he is qualified for promotion to a higher form or cless. As it stands the rule is capable of misinterpretation, and the headmaster of a school has every right to admit pupils into any of the forms without the presented transfer crifficates, and demand these outly from pupils seeking admission into one of the Preparatory classee III & 17, Infant, I & II.

This role seems to give full liberty to a headmaster to place a new pupil in the form or class for which he is found fit; and the insertion of Rule 47 in the Fifth edition bears out our contention :- " The beadmaster of the school into which a pupil is admitted shall place him in the class for which he is found fit, subject to ravision by the Inspector." Whereas in the Fourth edition there was Rula 39 to the effect that "the Headmaster of a school into which a papil is admitted shall not place the pupil in a higher class or form during the term in which he is so admitted than the oos he would bave been in, if he bad remained in the school he has left." The very feet that this rule has been omitted from the Fifth edition shows clearly that the headmaster of a Secondary school has every right to place a pupil seeking admission into his achool into the class for which he is found fit irrespective of what may be stated in the transfer certificate whether he is qualified for promotion to a higher class. The Director of Public Instruction in mns of his recent proceedings questions the right of a headmaster doing what is generally understood by the role, and many a pupil who had been admitted into a higher form has had to be "degraded" although the beadmaster might have found him fit for a higher one. As the deletion of Rule 39 from the Fourth edition and the insertion of Rule 47 in the new edition

have created some unpleasantness and manufarstanding between the Department and the heads of Secundary Schools, the sooner Rule 47 is cancelled the better will at be for all parties

Rule 59 (a) requires that every pupil shall wear a cleun and respectable frees, and so all cases where good munners require it a suitable covering for the head. What is a suitable covering for the head? What does the Department understand by grod manners What is considered good manners by some may be just the opposite in the estimation of others Many u pupil may now be seen in schools with heads appovered, with a tuft of hair, very often with a bush of hair. In the opinion of several school masters this is conadered good manners, on the score of ste being an arthodox Hindu enstom But to the foreigner nothing can be more shocking or disgosting Little hove very often put on a headeloth, obviously too heavy for their small heads Grown up Indians discard their national puggrees and don Carope made felt cape and even hats and sula topees, in a few cases Bot why compel an Indian school boy to wear a covering for the head while at school? The head is as a rule covered to protect is from the heat of the au ; whun one goss nut In there any necessity for a covaring when one stays induors? The continual wearing of a bend dress in a hot country like India tenda only to heat the brain and gives one a headache One who is Isarning or doing mental work should keep his head always cool Besides it is not the national custom of the Hinds to cover his head, when he goes into a templa or wor ships his God he takes uff his head cluth as well as his shoes It was when Mahamedan rule pravailed over India that the Hindu began to cover his head, lest he should be insulted by the sacred fuft being pulled by the Mahomedan Ip a few schools at present several boys who have their hair cropped in the European fashion are allowed to stay to the class room without any covering for their head. This rule therefore had better be expanged and let every individual achoolmanter do what is best under the varying cromptalence.

Rule 07 Courses of instruction may be prescribed from time to time For All Secondury schools, etc. The rule does not say by whom this is to be done, although it is generally presumed that the Department is to do Bucause of this grave omission each endividual Inspector of Schools prescribes his own course of studier, with the result there is no uniformity, each circle follows a different syllabos. A popul transferred from one circle to another labours under great diredvantage in consequence. The anhieots and the portions studied in an accool are different from those in enother In the Foorth edition of the Educational Rules the courses were laid down, and in the hifth edition poblished in 1906, the conress were omitted and a foot-note added that ' the nourses at present prescribed are those laid down in the knurth edition of these Rules" Two years later the same rules were " reprinted embodying the tandification approved by Government prior to June 1903," and in this, strange to sefneither the course of studies nor the foot note referring to it appears There should be uniform naurse of studies prescribed for all achools in the Presidency, but the method of teaching the subjects should be left in the

bands of beadmasters.

D LAZARUS.

SUPERVISION AND INSPECTION.

Since the introduction of the new system in schools after Lord Curzon's Education Commission, Supervision and Inspection have become the all-absorbing questions in the educational field especially of this presidency. Headmasters have been relieved almost wholly from their teaching work end have been made to epend most of their time in supervision the work of the assistant-masters. The number of inspectors has been increased and the inspectors are asked to pay as many visits as possible to every school under their jurisdiction, visits, ordinary, surprise and otherwise and thus they are made to keep themasives in close touch with the actual working of every school. All this has been done in the best interest of education nobody can deny.

But whon we look at the result of the actual working of this system for the past four or five years during which it has been in vogne, to the disappointment of all concerned, we find that instead of contributing to the sounderso of education, as it was originally intended to do, it has done a great end palpable mischief by creating much beart-burning in the minds of assistant masters which has added not a little to the discontent provailing amongst school-masters on account of the insufficiency of pay, is-scurity of office, anxiety for the future and many other ills from which they are already suffering

But if we would sit calmly and carefully exemine the real cause of this evil we should surely come to the conclusion that the aystem itself is not at all to blame but only the methods adopted in working it out. The aystem by itself is good end the spirit of it is highly praise-worthy. But the illuberality with which the system is worked out by those responsible for the success of it and the wrong methods adopted by them owing to excessive zeal to exercise authority in some cases, want of responsibility in others and incompetency in some others are the main causes that contribute to the feilure of this system.

Supervision :-

Under the bead of supervision we have to consider three points among others: (1) Who should supervise? (2) Whom and what to supervise? and (3) How to supervise?

(1) Who should supervise ! .- The work of supervision is a very responsible task. It is very wrong to suppose that the supervising headmasters have very little work to do and thus can enjoy much leisure in addition to the enormous powers attached to their office. Of course some headmasters by virtue of the long service they have put in in their schools and proprietary right they own in them have made their office a pastime for their retiring age and of pecessity such schools suffer from want of efficiency, and co-operation and willing work of the other members of the staff for sauses ton well-known to be mentioned here. For appervision to be effective and beneficial, the knowledge of the headmaster should be many-sided and po-to-date. He abould be a scholar in English, specialist in ppe science and a little chort of a specielist in all other aubjects. He should ever be a student acquiring and assimilating all kinds of knowledge and acquainting himself with the new methods of teaching in addition to

A paper read by Mr. K Venkstarama Aigar,
 Deputy Inspector of Schools, Pudakkottai, before
 the South Indian Teachers Union Educational
 Conference held at Trichinopoly.
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to sympathise with the difficulties of teachers He should be able to give model lessons for all classes in English and the subject in which he is a specialist and in all other anbicots for all the lower classes especially of the primary department. He should be able to draw up eyllabuses and set question papers for all anbiects and classes in addition to his organising capacity. Above all he abould be energetic, enthusiaetic, a man ci much taot, stordy character, large heart, good discipline and wioning menuers. A defect there and a defect here to other respects can he made good easily if he possesses large sympathy and even mudedness. He should never entrust any portion of bie aspervision work to any of his assistants however claver and able he might he, at least for sentimeetal objections if not for other once Of course to acquire all these is no essy task and the headmaster can nover be called a leasured esutleman. (2) Whom and what to supervise? -At regards or expiration and discipline the head master should supervise the whole school with the co-operation of his assistante. He should stiend to the regularity and uniformsty of matraction given in each class

his originality of thought. He should fam-

self teach a portion of the most important

work in the highest class of the sobget lest he

should lose touch with teaching and thus fail

(2) Whose and what to supersise?—As regards organisation and discipline the bead master should supervise the whole school with the oc-operation of his sensitiants. He should attend to the regularity and uniformity of instriction gives in gach class. Having employed competent and qualified men in the stell it is not desirable that the beadmanter should supervise tha method of teaching of the masters in the higher forms of the school where the mix employed are the products of higher education and know the principles of teaching as much as the headmanter himself. A slight supervision is enough in the lower forms days to this first.

the assistants a little as to the methods Bu the place where a thorough supervision and guidance is necessary is the primary depart ment and the first form where the pupils are yet children and require a treetment according to high psychological principles which the masters there are not expected to know much A aure test of a good beedmaster's work is the sound condition of the primary depart ment and the lower forms But some altogether neglect the primary department owing to some reason or other and leave the aupervision of it into the bands of their assistants thus creating more masters than one to the teachers of that department, It is heard that in some achoole headmasters ask the monitors to keep a daily record of the portion done by the teachers in various aubjects and aubmit the same to them once is a weak or so Nead it be easd then these acts would surely lower the assistant-masters se the eyes of boys and thue make their position really awkward? A competent and responsible headmaster would never allow anch things to happen

where the besdmaster has simply to guid

(3) How to superuse to cornerst question the Grat and forement daty of a beadmenter as that of giving model leasons in a should at least give two model leasons to error month, one not be higher forms (of course). English or the cubret in which his a specialist) and another to the lower classes and thus place before the maters for ther guadance what he considers to be the best material of the country of the c

of studies. He should himself be invariably the chairmon of each hoard conducting and directing its meetings. He should be carefully watching whether the resolutions adopted in the meetings are really workable and seeking remedies for defects noted. Drawing up of syllabness and selection of text-hooks should not be the work of e day but should continue for the whole year. In some schools beadmasters leave these entirely into the hands of the heard constituted for each subject with a senior special essistant for that anbject as choirman. Thus they do nothing in the matter beyond that of seeing the husiness done ill or well by these hoards. If -the acheme drawn by the boards proyes a success In its actual working, then these would step in and claim for themselves every inch of the success. But however if any defect is pointed out by the inspection officers or the scheme itself fails the responsibility of it will be shoved down to the devoted bands of the assistants forming the several boards. Thus that unless the headmasters take vary active pert, much more than the assistants thomselves, in the actual framing of the syllabuses and the selection of text-books they would hopelessly make themselves nufit for supervision work. In some other schools again the headmasters go to the other extreme. In the framing of syllahuses and the solection of text-books they never take into confidence the class masters and the special assistants who are after all the actual persons to carry out the acheme to a anccessful issue.

The next important function of the beadmaster is that of supervising the work of the azistant master. As has been said already is is highly desirable, payoven necessary, that the headmasters do not interfere much with the actual teaching of the class by the masters in the bigber forms either by being present in the class or offering remarks as such. If however they find it necessary to pass any remarks about the teaching of any assistant master, these ramarks should come as angrestions in the teachers' essociation, which every school should have in a general way without particularising the person concerned. No headmaster should enter remarks in his log book, as he calls it, for the sake of remarks. Of course it must be said that with many headmasters 'remarks about teachers' means only had remarks and very rarely we bear of good remarks recorded in favour of teachers. So before recording ony anch had remarks about any teacher, the headmaster should invariably have a talk over the matter with the teacher concerned and record his reasons along with his remarks if he still finds his opinion nuchangeable. At any rate no headmaster should enter any remarks about a teacher hebind hie back. Such an action will only create had blood and will have ne corrective effect.

It should never be forgotten that children should be made to understand that there is no person greater than their own teacher, i.e., the persona grata of the teacher should never he allowed to suffar. So any remark passed by any headmaster about a teacher's work in the presence of boys or in the teacher should be highly detrimental to the heat interests of organisation, discipline and instruction bewides wounding the aunceptibilities of the teacher concerned. His remarks should always be constructive and never awesping or destructive.

Inspection :-

Inspectors often remark, rightly no doubt, that headmasters should have some important teaching work, some periode in a work, otherwise they would lose touch with teaching and will not be in a fit position to augurvise the work of hie assistante. It was remarked by one of the suspectors that a certain experienced and successful teacher wee unable to adapt himself to the high school standard of teaching hecause he had all along heen a professor in a collegu lecturing to FA and BA students Can it not he said with equal force that inspectors before they take up their office should have had at least come years' teaching experience in a high school? The hall mark of Wastern University or some years' lacturing experience in a college cannot he a passport to an managedorial seat. The inspector should be an all round man with a high teaching capaouty and apperience. If an incompetent headmaster spoils one school, an incompetent inspector ruins many

impoctor rains many Evrsy importor should give at least two model lessons in a year in every important costro. It is a pity that the inspection codin does not make provision to compel inspectors to give model lessons. In the native state of Fadukkottas, though a small nee, from the experintendant of schools down to this deputy inspector it is compalsory on every inspecting officer to give model lessons. Similarly it should be made compulsory even been. Then only the suggestions of the inspectors would be more practical than theorotical, more constructive that districtive, and more sympathetic and well thought out than otherwise.

It should also he noted here that there should be more of the inspection of boys than of the teachers

No inspector can he too careful in writing remarks about teachers. Teachers have often

been enflerers on account of indiscreet remarks made by suspectors. Remarks of two inspectors shout one and the same teachur regarding the teechiog of the same lesson are conflicting One calls his lesson dall and mainteresting and another calls his muthod intelligent and hie leeson very interesting Instances of this kind are many. Again one and the came inspector makes conflicting remarks about one and the same teacher In the first inspection he remarks that a certain teacher is not up to-date, bis days are done and he must be replaced by a young, up to-date L.T and in the very cert inapection the same inspector says shoul the same teacher that he has eastly emprored Surely ha could not have become younger at any rated Anyhow such uncharitable and random remarks are autremely harmful.

Above all they should follow to the very latter the sprint of the rules asipulated in the code for their hebavisor: towards managers, beadmasters, assistant masters, prominent citizene taking interest in education and percents. Failore to observe these rules on the part of inspectors has had the bundle effect of making the teachers become dis appointed and hate their profession.

THE WORK IN THE CHEMICAL LABORATORY BY THE

INTERMEDIATE STUDENTS.

DRACTICAL work is all sciences require greatest care and caction and power of observation and a sound keewledge of the theory of the experiments to be done in the Laboratory. Practical Chemistry, especially, it need not be reiterated, requires cleanliness. The etudents who work in the Laboratory shoold see every time, they begin their work, that all their apparates are in perfect good order, and that they are very cleac. They should be specially examined, lest the imporities adhering to them should give exactly pontrary reactions and results to what ought to be obtained by theory. This is heat done by cleaning them first with sodium carbonste in the tap water and then washing them in onre distilled water. The articles thes washed are to be dried with a clean towel or by inverting them in the stand for a considerably long time.

The things that are very essential to the student and which he cannot expect the College to supply him, are a neat towel which he will particularly take care to wash once a week, a clean penknife that can freely enter into the test tubes and a match-box. It is always better if he is not allowed in the class without these things.

The students ore to be prepared to begin straight their work as soon as they enter the class rather than look into the book and try to understand what they are to do. This will save a lot of time. This one be easily done by notifying some days before, the list of experiments which a set of students are to perform or a particular day. The students are thus cuabiled to be quite prepared for the plass. Experiments must be recorded as they

are performed. Under no circomstances, recording is done ofter the experiment or in loose sheets of paper or in note-books other than the one intended for the purpose.

Students should provide themselves with two note-books—one a rough ose, in which they record the experiments in the class when they are proceeding with the experiment and get it checked by the Lectorer and the other a fair one in which they copy from the rough note-book those experiments which were approved by the Lectorer.

Each stodent, after completing his work for that day, must produce the rough notibook in which he has taken noted during the experiment to the Lecturar and get his remarks and if he wasts to repeat the same experiment, he mest do if without looking into the notes which he has taken during the last time. He mest be very exreld in not committing the same blunder; this can be easily overcome by beginning the experiment afresh for a second time and by not thinking that he has done it already once.

If once an entry is made in the rough notebook, the proper way to correct it, in case, the student thicks that it is wrong, it is by drawing a borizontal lice over it, and making the correct outry by it aside and not by writing over the first cetry itself. It this way, manipulation by the student, it any, can hatected and the Lectorer will also be in a position to tell him how the wrong result was first obtained.

Whosever any quantitative experiment is performed, ntmost care must be taken both by the student and the lectorer. The stedent must show in the rough note-hook how be arrived at a particeler, result; and all the calculations_made with the help of the methomatical tables in various steps, must find a place in the note-book. It is always advisable to resort to work with the mathemetical tables rather than by actual multiplication and division.

On no account the students will be alluwed to work as they like in the Laboratory and do experiments of their own unless the Lecturer gives permission to do so.

It is particularly requested that the Lecturer is sheed in his loctures of the Practical work by at least 3 or 4 days, so that students will flad their practical work as a revision and also they will be able to perform the succeed ing experiments in case the College is not able to sapply each of them with the same apparatus required for a particular experiment-In such cases, they may he able to work in hatches. For instance, let us suppose there are 30 stodeuts in the class and all of them ara to prapare and study the properties of bydrogen bromide. Let us slee seeme that there are only 10 dropping founds to the Leboratory available for the students. The class may be divided into sets of 10 students each. When one set is preparing hydrobromic acid the other eets may be engaged in proeceding to the next set of experiments -The Reducing action of H Br and H I and Identification of the Halogen compounds and with the preparation and properties of sulphur and its compounds. This can be done only, if thay have done the whole of the halogens and comething in sulpher.

The work of each undividual student must be checked esperately, for which purpose a book with the following form printed in it is to be supplied to each student. The list of experiments in Col. 2 are so arranged that each set requires not more than 2 hours.

9	remarks and eignature of the Lecturer				
•	Eparks				
•	whether				
e	began on	,			
	Description of a day's experiments with corresponding acts in				
-	ž				
The following is the scheme					

to be finished in 2 hours		Smith Hales
Bassen Burger, Glass working	and	

2. Qualitativa study of the Chemical phenomena . . 8

4 The Law of Definite Proportions ... 9
5. Oxygen, Sources, Catalytic action . 10, 11

Osygen . . . 12, 13

7 Hydrogen, loteraction of metals and acade 16, 17

Other methods of obtaining Hydrogen and its properties 18, 19

Reduction by means of Hydrogen.

Purity of water, Union[with Oxides,
Hydrates 20, 21, 22, 23

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10,	Solution of gases in water and	30.	Snlphur, Hydrogen Sulphide, Proper-
11.	solution of liquids in liquids 24, 25 Solution of solids in liquids, Proper-		ties of squeone Hydrogen Salphide 71, 72, 73
		31.	
	tire of solutions. Vapour Pressure	32.	
11.	and Boiling water 26, 27	32.	
12.	Preparetion and Properties of Chin-	33.	
	riue 29,30	J.	perties of Sulphurio Acid, Sulphurio
13.	Preparation and Properties of		Acid as a dishasio acid, Sulphates 79, 80, 31, 82
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23.		52.	Organio Compounds
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			•

EDUCATION IN THE MAGAZINES.

Mass Education in Baroda.

The 'Library movement' in Barode is taking some interesting turns, all siming to bring the light of knowledge within the reach of all classes. of people high and low young and old, male and female. In the Central Library located in the capital of the State, there is a ladies' section as well as a juvenile section, with hundreds of books likely to appeal to and mostruct these particular classes of readers Mr Gould the well known lectorer and author of children's story books. visited Baroda and found 'ample evidences of upto date appreciation of the importance of literature to young cit zenbood. In a recent mumber of the 'Labrary Miscellany' usued from the Central Library, Mr Gould gives some interesting hints on the organisation and popularisation of chil dren's libraries by such means as story telling, supply of illustrated books and periodicals lantern lectures and poblication of books of the type of Mr Stead . Books for the Bairne' in the verne milare The children's librory is distinctively an American invention. The importance of juvepilo departments in connection with public libraries is being slowly but steadily appreciated in Great Britain too, though not to the same extent as in the new world. It redounds highly to the credit of Baroda that it should have been the first in Iodie to realise the amportant part children's libraries play in stimulating the national intellect

Not content with the success it has met with through the agency of hooks, the library depart ment is thinking of pressing the Cinematograph too into its service. Realising the immense possibilities of the moving picture show as an edn cational instrument, the department has opened a visual instruction branch in connection with the Central Library Department, with a view to give the benefit of education not only to those who can read, hot also, and especially, to these who are innocent of the art of reading it appears that the Maharaja has esuctioned He 10,000 for one year, by way of experiment, in connection with this novel branch of the hterary activities According to this scheme one superintendent end an operator with the necessary menual staff are to visit different places in the Ray and give free Cinematograph and Magic Lantern exhibi tions. A new Edison Home Kinetoscope has also

been endered Some high officials of the State, following the example of the Maharaja, have placed their own home Cinematographs at the disposal of the department, Altogether, it would spepar that the newly megned Library department is playing a spleudid part in popular education in the true sense of the term

Education among Sikhs.

It the Sikh Educational Conference lately beld at Amba's Diwan Lilaram Singb of Karachi, who was elected President, said ~

I need hardly point out that education does not mean mere literary training, but it is in the true sense of the word on equipment for life to system of education can be complete which we lects the training of the beart and fails to awaken some of the noblest emotions of the soul Ohedience and loyalty, spirit of sacrifice and deretion to the ever living and loving God bas made Sikhe e dietruct race, faithful and raliant devoted end feerless, but unebaken faith in God end the Gurus? It was this light of faith which o ir Gura Sahibe kindled in the hearts of men and turned them suto beroes, It is this faith which it the assance of the Sikb religion and which is out duty to keep alive for the greatness and glory of our people The first and foremost aim and object of our system of education should be the education of the heart, in the faith of our father untremmelled by the accrations which have gathered round it. If we bring up our children as true Sikbs, ready to sacrifice and suffer and continue valorous conflict agmost all that is ignoble and wrong we aball have done our duty. It was for the propagation of this high ideal that our Great Gura Govind Singh Sabib and his sons suffered martyrdom He has left in the hands of the Khales the selvation of the whole of India and we have met here now, and I hope every year we shall real so more clearly and work more stead fastly to keep the fire of true devotion ahre, and emplant in the heart of every Sikh child, male and iemsle, the fear of God and lore of men, a behel to human nature and the power of truth in conquering all difficulties This education cannot be given in schools, and it is this education which we require for our obildren if we are to carry out the trust which our Gara Sahib placed in the Khalia-This education can only be given by fathers, mothers, and brothers, living holy and devoted here as true Sikhe, and kindling the growing minds a blaze of devout aspiration for all that is noble and true,

(FOREIGN) Thackeray's "Esmond."

Mr. Austin Dobson writes in Great Thoughts 1-

In Thackeray's work, the place of "The History of Henry Esmond, Esq., a Colonel in the service of Her Majesty Q. Anne, written by Himself"-lies midway between his four other principal books, "Vanity Fair," "Pendennis," "The Newcomes," and "The Virginiana; " and its position serves, in a measure, to explain its origin. In 1848, after much tentative and miscellaneous production, of which the value had been but imperfectly appreciated, the anthor found his fame with the vellow numbers of "Vanity Fair." Two years later, adopting the same serial form, came " Pendennis," "Vanity Fair" had been the condensation of a life's experience; and excellent as " Pendennis" would have seemed from any inferior hand, its readers could not disguise from themselves that, though showing no falling off in other respects, it drew to some extent upon the old material. No nne was readler than Thackeray to listen to a whisper of this kind, or more willing to believe thatas he afterwards told his friend Elwin concerning "The Newcomes"-" be had exhausted all the types of character with which he was familiar." Accordingly he hegen, for the time, to turn his thoughts in fresh directions; and in the year that followed the publication of "Pendennis," prepared and delivered in England and Scotland a series of " Lectures upon the English Hamonrists of the Eighteenth Century." With the success of these came the prompting for a new work of fiction-not to be contemporary, and not to be issued in parts. His studies for the " Humonrists" had saturated him with the apirit of a time to which-witness his norelette of " Barry Lyndon"-he had always been attracted; and when Mr. George Smith called on him with a proposal that he should write a new story for £1,000, he was already well in hand with "Esmond"-an effort in which, if it were not possible to invent new pappets, it was at least possible to provide fresh costomes and a change of background.

To most eachers it will be a matter of surprise, and it is containly a noteworth testimany to the author's powers, that this attempt to restree the author's powers, that this attempt to restree the language and atmosphere of a vanished era was in great part dictated. It has even been said that, like "Pendennia," it was all dictated just this, it seems, is a mistake, for part of the manuacript was seen, is a mistake, for part of the manuacript was seen, is a mistake, for part of the manuacript was been and the work, however, he often reverted to the method of oral composition which had always been most congenial to him, and which explains the easy collection.

quisliem of his style. Much of the "cony" was taken down by Mr Crowe in a first floor bedroom of No. 16, Young Street, Kensington, the stillexistent house where "Vanity Fair" had been written: at the Bedford Hotel in Covent Garden; at the round table in the Athensum library, and elsewhere. "I write better anywhere than at hnme"-Thackeray told Elwin-" and 1 write less at home than anywhere." Sometimes author and scribe would betake themselves to the British Museum, to look up points in connection with Mariborough's hattles, or to rummage Jacob Tonson's Gazettes for the official accounts of Wyneedel and Oudenarde. The Museum, indeed, was another of "Esmond's" birthplaces. By favour of Sir Antonio Panuzi, Thackeray and his assistant, anrrounded by their authorities, were accommodated in one of the secluded calleries.

Professor Dowden.

The world of books has suffered a great loss in the death of Edward Donden. Even io his undergraduate dave. Dowden had made his mark as a critic, for an eddress which he delivered before the Dublin University Philosophical Society, and won farmrable notice from Saiote-Beuve. He was eppointed to the Chair of English Laterature in Trinity College at the ege of tweety-four, and eight years later he published Shakespere : His mind and Art,' a work which many critics regard as the most valuable contribution made to Shakeeperean commentary sioca Coleridge. Ris Life of Shelley, published in 1886, was the cause of an ironical essay by Matthew Arnold, but the book is still acknowledged to be the standard biography of Shelley. Dowden himself thought more highly of a small volume on 'Southey' which he contributed to the 'English Men of Letters' Series.

Apart from his works on Shakespere and Shelley. Dowden's contributions to critical literature were wide in range and in sympathy. He wrote notable essays on French, German, and Italian authors and thinkers, and he was almost the first of our critics -anticipating John Addington Symonds-to recognived Walt Whitman, 'The good gray poet' was deeply moved by this admiration from across the Atlantic, and the frequent references in his letters prove the high value which he set on Dowden's appreciation. Few critics showed greater skill than Dowden in presenting the essence of an author's apirits by means of a mosaic of quotations embedded in a ruoming interpretative commentary, or in summing up the salient characteristics of an epoch-His essays on ' The Transcendental Movement and

Literature' and 'The Scientifin Movement and Literature' and his book 'Phe Pri och Revolution and English Literature, are examples of this latter faculty. His chief admiration in Praglish literature after Shakespere was probably for Wordsworth, and in French literature for Montaugne.

Dowden's personality was an extremely engag ing one His dignified and rather formal bearing, the deep, musical tones of his toice his humans, end the grave courtesy with which be would defer to the greenest undergraduste were some of the personal traits which won sud held the affection of succeeding generations of his students ever made less of a parade o scholarship and none was more ready to pisce his time and his books at the disposal of any literary inquirer Dowden's health oud been a cause for concern to his friends for some time—a few years ago be easid in conversation with a smile that he bed no blood thirsty chinging to 'ifa'-but his end an Tunreday was quite unexpected [lis country and his univer sity will both mourn his loss Readers of the Nation will also have cause to regret that his occasioual contributions can no more appear in our pages -The Nation.

European Predominance

At the third quinquennis! International Con gress of Historical Studies in London, Mr Byree, the President, spoke on the subject of *European Predominance in National Development." Resaid — "Re-

There was one other aspect of the present age of the world that had a protound and novel meaning for the historian The world was becoming not in an altogether new sense. More than four centuries ago the discovery of America marked the first step in the process by which the European races bad now gained dominion over nearly the whole of the earth. The last great step in that process was the partition of Africa bet ween three Puropean powers a little more than twenty years sgn Now, almost every part of the earth's surface, except the territories of China and Jajan, was either owned or controlled by five or six haropean races Eight Great Powers swaved the political destinies of the globe, and there were only two other countries that could be thought of as lakely to enter after a while into the rank of Great Powers Similarly a few Furopean tongues had overspread all the continents, except Asis, and even there it seemed probable that those few European tongues would before long he learnt and used by the educated classes in such wise as to bring those classes into touch with European ideas. It was likely

that by A.D 2000 more than nine tenths of the human race would be speaking less than twenty languages. Already there were practically only four great religions in the world. Within a century the minor religions might bare gone, and possibly nuly three great faiths would remain, with such accelerated swiftness did change now move Those things which were already at ong were growing stronger , those stready weak giew weaker and were ready to sameh away. Thus, as the earth had been navrowed through the new forces science had placed at their dispossi, and as the larger bumon group absorbed or assimilated the smaller, the movements of politics, of economics and of thought in each of its regions became more closely internoven with those of every other Whatever happened in sof part of the globs had now a significance for erest other part Industrial disputes were felt mere widely over its sorface than those earthquites in Jasz which the semmograph recorded at Washington The money markets were affected simultane nualy. Each Great Power, were it European Assetic or American, was in close contact with all the others, it was allied or friendly (or possibly not too friendly) with some one of more of the others The great wave that swung round the world made its last ripples felt in the world s remotest curner. In regions till lately unexplored, in the combre depths of African of Brazilian forests, or on the nases that lay scattered along the dream deserts of Mongolio, the fortenes of the nature tribes were effected by what passed in Luropean capitale Even in the one continent which stood almost wholly outside the web of international relations South America, Pinspet reached where politics did not reach, Finance ered more than politics, had now made the world one community, and finance was mora closely acter woven with politics than ever before. The his torian, who in the days of Thucy dies needed to look an further than to Susa on the cast and Corthago on the west had now to extend his vision to take an the whole earth, and would not be able to write the ancels of any one country without keeping he eye fixed on the Sovereign and Parliaments of every miher Nor assthere a more striking illustration of the influence now excited by the European race upon ell others than was presented in the fact that an every country, except those which were ruled subject dumicions by some people of European stock there now existed some kind of form (even if little more than a form) of representative govers ment World history was tending to become one his tory, the bistory no longer of many different races of mankind occasionally affecting one snother s for tunes, but the history of mankind as a whole, the fortunes of each branch henceforth bound up with those of the others. In these conditions, the his torian of the futore would need an amplitude of conception and a power of grouping his figures like that of Tintoretto or Michael Angelo, if he were to handle so rest a careas.

The Evolution of Indian History.

At the meeting of the Oriental Congress of Bistorical Studies at University College on April 4th, Sir William Lee Werner read a paper on "The Brolution of Jadian History," in which he said that the stages or periods through which the Indian peoples had passed in pursuit of a reasonable degree of freedom were marked by the escendancy of three principles-first the Higdon priestcraft; second, the sword of Islam ; and third, universal Buitish law. The first period, 1500 B.C. to 1206 A.D. spanned the transition from a pastoral Indo-Aryan community enjuying personal liberty to a medley of asparate despotisms, in which the priestly caste monopolised temporal and spiritual power. The Brahmine, asserting ascendancy over caste and tribes, moulded the social framework, and used religion as an engine of atatecraft. A Buddbist struggle for freedom succeeded 250 B.C. to 350 A. D., declined 750 A. D., and finally failed. Although the traditional basis of four castes was modified, the priests, by conferring a divine status on Raipoct kings, regained power India without political unity, defenceless against invesion fell into belpless apathy and disorder, deadening the justings of freedom. The Mahomedans A. D. 1206-1788, bringing new elements of freedom, broke the sacerdotal exceedancy in the north, and distributed over India principalities opposed to its pretensions. Brahmmiam, however, won fresh successes at Poons and in the south, again provoking Lingayets and other sections to throw off the fetters of casts. Akbar gave the empire an objectlesson in religious toleration, and showed that the defence of Indian frontiers required control of the Afghan passes and Imperial unity. The attempt failed, but rakindled the desire for freedom. The British secured the public peace and defence of ludis essential for the diffusion of liberty, abolished by legislation, slavery, sati, and casts disabilities, otherwise securing free play for the silent mural forces of fudo-European civilisation. After the Mutrny, an apen conflict between the two civilizations, progress towards freedom was resumed; but, under the State's guarantee of religious nautrality, alow headway against the enslating tendencies of centuries must be expected.

Ben Jonson.

Mr. George Freeman Irwin writes in Great Thoughts:-

In their endeavours to mark as clearly as possible every shade of distinction among poets critics have been led to use many images of singular. force and propriety. Among these is one. singularly felicitous, which has more than once heen employed, to indicate that difference so perceptible yet so difficult of explication between the work of the very greatest attists, end those who fall short of the greatest by the west of some indefineble touch that would have given their, work the different sir and happier effect, which marks the master hand. The godlike mastery of the former has been caprassed by the word Olympiam; and the uncessing and mighty afforts of the latter to attain the same height by the word Titanic. Swinburne in approaching the study of Ben Jouson used these words, and with his own peculiar mastery over language adorned the phrases with bis oun enlargement of them. He classes all poets as either "Gods of harmony and creation" or "giants of energy and invention." Jonson, wanting as he was in the mastery of the Olympian, stands in the front rank among the Titana.

His marques and dramas are marked by consistent effort of the highest kind, rewarded frequently by the production of work which live apon the borderland of the Olympian. They possess all those qualities of "spergy and invention" which are essential to the highest forme of estistic work, but they are wanting in that harmony which belongs slone to the creations of the highest. It is thus that he stands just below Shakespeare, and although many passages of his may be quoted to show that he recelled him in particular points, yet we must never be led so far astray as to place him shove the "myriad-minded", master, for with all Joneon's massive power he had neither the rappe nor the magio touch which speak the divine in Shakespeere.

Joseon's coneistency throughout the whole course of his work is no wooderful sod on admirable—eren beyond that of Shiespeare—that it deserves a high reward; and the words of Swindson's sou nide praise. There is something herous and magnifectat in his hirleog dedication of all his glits at all his powers to the service of the srt, he had elected as the tancers of all his high, and the sim of all his appraisation."

The characteristic of the Trians is effort, and effort is one of the keynotes of Jonson's work, There are no scholars by intuition, and years of hard study are required before such erudition as Jonson's works exhibit could be attained.

Like Milton he astooishas us with the range of his stodies and his capacity for work. He was the possessor of a remarkable library of classical works as Selden testifies, and was deeply read in the European literaturn of many periods This learning he thought it his doty to use in the composition of his dramas so that we have them studded with gems from the classics, so much so indeed that some of his contempuraries accused him of plactariem and insiposted that Jonson's chief ment was that he was an excellent translator But we have a remarkable anstance of Junzon's capacity for arduous labours. When he was con templating a draws on the subject of alchems, he made a diligent study of all the details of the theories and mathods of the science, till his was in a position to introduce with perfect case its technicalities into his play-a feat which to a less able man would have been well nigh impossible for, as a perusal of the play "The Alchemut" will show, the etodents of sichemy were not sparing in the manufacture of abstruse terms

Jonson's study and his introduction of the results of his study into his dremes is a trast of that conscientiouspess which marked all his literary undertakings. Whatever he undertook he im mediately set about with a conscientious effort to make the best of it, and to leave nothing undene which would make for the success of his work With such a command or all the realms of classical thought, he found it impossible in cetting about the composition of a masque or drama however trivial to omit the introduction of some adorament from these treasures. It is thus that we find everything from his band substantial. His poetry eims at that, and whatever may be wanting of ethereal fragrances and the finer qualities of delicate art, we may be sure of finding a enbust eubstautiality

The same consecuration ones is observable in the construction of his plots, is which pount hip presents each a marked contract to Shakarpeare Shakarpe

It may be that Jonson's very greatness as a

scholar was the cause of his failure as the founder of a school of drematic art. More than our critic has pointed out les attitude towards his characters-We can amagine Shakespeare as lovingly dwelling upon his creations. Wn can imagine him loring Juliet or Miranda, pitylog Cordelia, feeling and Hamlet or Lear in their distresses, and tasting the hitterness and hatred of Timon. There is no aloofuses from his charactere. He is one out them, as Dickens wes with his, rejoining in their success and saddened at their failure With Jos son this is all different. His habits es a student had led hem in regard his characters as subjects for the exercise of his intellectual faculties, something a little superior to poppets, who were in go through various actions, and whose enoused nature was to bu taken into consideration in the same intellectual way, as forming a part of the motive power of the pley He stood slool from his creations and contemplated them from six The result is, as has been potnied out, a want of " vital impulse " to b a characters And they are mere examples of those enigmatical himouried which he treats in so many of his plays from "Every Man in His Humnur" and "Every Mia out of His Homour" down to almost his letted play "The Magnetic Lady" or "The Humoun Reconciled "

THE UNIVERSITIES.

MADRAS UNIVERSITY.

Nominations for Election

The following members of the Syndreds have vaccide that sets — Mr. B. I.J. Josep, a.y. in ward of the sets — Mr. B. I.J. Josep, a.y. in Bar G. Pittendrugh, a. t. in Rev. I.J. M. Me phat, a. a. b. a. a. section of three members of the Syndreate will be held forthworth a last two mashers to be mixed should be Hard of or Professors in College and into the control of the section of the control of the section of

M A Degree Examination, 1918

BRANCH Vf (ENGLISH)

The following are the cames of successful
candidates —

Annaji Rao, Periyapatam S (Kanatras) III clasa, Geacoprakasam, D (Tamil) III class, Kecara Rao, Vadd (Talego) If class, Krushta morts, R (Scockrt) I class, Madbara Korsh, Kopippilli (Malayalam) If class, Ramachanda Ran, Gsjevelli (Telogo) III class, Statraman, P. A. (Ssuskrit) II class, Subrahmanyen, K (Tamil) II class, Venkatsraman, Valsvanne R. (Telogo) II class, Yegoanarayana Aiyar, Stanukriehna K. (Sanskrit) II class.

Engineering Examinations

The fellowing are the names of successful candidates:--

FIRST EXAMINATION IN ENGINEERING.

Balraj, S. Joseph; Dursirajan, N; Geiodarajan, N; Narssimba Alysr, M. Kelathi; Baussys, Maddgiri; Srinivava Rao, Udipi; Sriramulu Naido; Bandi; Subrabmaniyam S. M; Gundaram P. S.; Yunkataanryanarayana, Tengirain.

B. E. DEGREE (CIVIL BRANCH).

Krishnaswami G. R.; Lekshminarasiya, Narsipor; Lekshminarayau, Akkanaptegada; Madhova Chari R.; Nageswara Aiyar, Aromhakkam; Ratonewami Samuel W.; Srioivasau T. R.; Thomas Kallarukai C.

B E. Digner (Mechanical Branch).

Venkatakrishnan L., and Vengata Sahbachari, Konigal R.

CALCUTTA UNIVERSITY.

Re-institution of L M.S. Examination. A meeting of the Senate of the Calcutts Uni-

versity was held at the Senate House, College Square, recently. The Hon. Sir Asbutosh Mockerjee, Vice-Chaucellor, presided, and there was a large number of Fellows present.

The Vice Chancallor, in epening the proceedings, seid, that with regard to the re-institution of the L. M. S. Esemination thern wern seventeen recommendations before them from the Syndicate. Those recommandations wars based generally upon the recommendation made to them by the Faculty of Medicina, although the Faculty itself was on certain points divided in their opinion. Any alterations in the medical regulations of the University was primarily s matter for experts. If the experts were sgreed in their epicion, the chances wern the laymen would have had to say nothing. But the doctors were divided in their opinion sed the result was that the laymen were called upoe to decide the matter. They should have, therefore, principally te discuss the exposition given by the axparts themestree. There were two questions really which required consideration, namely-(1)

Whether the regulations for the several examinations for the Degree of Bachelor of Medicine require smendment; and (2) whether it was necessary to institct so examination or examinations of a lewer standard.

Gal. Deare, Dean of the Faculty of Medicine, moved that the L. M. S. examination be no instituted and that the draft regulations before the Sanate be adopted for the pumpus. Major Regere seconded, and Rai Bakedur Dr. Chuni Lal Bose apperted the motion. After a long discussion the motion was put to rote and carried.

ALLAHABAD UNIVERSITY

Kayastha Pathshals

We lears with pleasure that an application has been made to be University for the affiliation of the Knyaste Rubebala on to the R. A. sanchard, and at is thorned and believed the R. A. sanchard, and at is thorned and believed the University will accord the necessary seeding and that the opening of B. A. olesses in the Pathelala will soon be an accomplished fact. This is very good naws and the President and Trustees of the Pathelala se well as the community described to be compressituated on the proposet.

LONDON UNIVERSITY,

Reorganisation Scheme.

Far-reaching proposels as ambodied in the final report, seven density, of the Royal Consistion on University Education in London. Their recommendations involve a therough ranganisation of the University of London, and will necessitiats an addition to its income of £93,000 s year, any athe "Daily Telegraph." The Communications have decisively rejected the agg, ations that there should be a separate techniqued University in London, having as its contribution of the Consistency of the C

External Students.

The University of London bolds a unique position. In addition to surgicialize the ordioury functions of a University, it grants degrees on the ranks of examination alone to andests ever whose instruction it has no control. The Commissionest, in their Report, argoe forcibly in favour of limiting the degrees in those students of the control of University teaching; but the force of spinion was too atrong for them. Though they appeared to have the will to recommend the abolition of the system of external degrees ther have recognized the mespediency of proposing so drastic a change It is often a far cer from the Report of a Royal Commission to an Act of Parliament but there is more chance of legisle tion now that the rights of the external student are not challenged Is seems to be thangla sometimes that an external student is a man who crams no nulluminating text books apart from the vitaliz og force of oral teaching. This need oot he so. The external student meraly claims to get his teaching where he chooses, not neces sarrly from the Professors of the University which examines him -The Educational Trees

CAMBRIDGE UNIVERSITA

A Donation

The Council of the Scorte of Cambridge Car versity have received through Professor Newall from a donor who desires to be sconymous. an offer of £ 10,000 towards the permanent on dowment of a chair of Astro Physics at Cambridge University provided the University to willing to supplement this sum by an endowment to reise the emoluments of the cheer to £ 500 a year The Council recommended that the offer can be accepted The cheir of Astro Physics will take the place of the Plomian Professorahip of Astron omy, vecant by the death of Sir Cenres Darwin

UNIVERSITY OF PARIS

The number of students to the University of Paris alone, in 1910 was 17 500, out of which 3 170 were foreigners - for the new University of Paris, in its short existence, has already regaroed the renown which it enjoyed in Europe in the Middle Ages Those students were destribe ted as follows -

lothe Faculty of Law 7 688, 900 horeg foreigners

- Mediane 4 080, 76a
- Lattera 3,115, 1028 Sciences 1,843, 461

School of Pharmacy. 784, 18 The University of Paris does not make ony des tinction between the seses. Its medal shows a central figure personifying science; on the right eide a young men in his isheratory costume, na the left a young women There are women doctors, women barristers, there are princesses of science,' sa they are called the University of Paris has appointed to one of its chairs Mime Caris In 1969 there were 1320 wmmen students, out of which 829 were fore gners. According to the French tradition, all the fectores in the University of Paris are free end upen to the

public and there are always some lovers of learning and beautiful discourses who, although they ere not students, come to beer lectures on their favoursie subjects or by their favourste professort especially in the Facul y of Letters.

TECHNICAL EDUCATION

Trees sites Topics

THE L. C. SWITH & BROK TYPEWRITER There is such a rariety of typewiiting machine

that nothing but a carried study of the details of manufacture can halp the user to make his splet tion A new departure has been inaugurated in applying ball bearings successfully to type, writer construction In the machine magnifictured by Mesers L C Smith & Bros every typebar bas 15 balls (Fig 1) each one tested by ecale to the ten thonsaudth of an inch it most be noted that balls for the typebar should not be less than 622/1000 0 nor n ore than 628/10000 of an 10th in dismitter This exactness and accuracy justifies the essertion that ball bearings serve the same perpose se jeuels in a watch The above com pany own a ball making plant in order to tern out perfect steel balls.

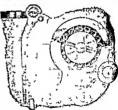


Fig 1

In order in transform rough rods of special steel into these polished, hardened, and perfect apheres ponderous machinery and a series of operations ere required. When completed, these balls are worth nearly \$125 00 s pint. The hall bearings do not wear loose and sie capable of closer adjust ment then the ordinary frictional bearings consequently they retain their adjustment for a much longer period. In typewiting machines three mechanical features determine the character of the work at the printing point, namely, the typebars, the carrange, and the capital shift. All these operate in the L. C. Smith machine on closely adjusted ball hearings and produce perfect workmanship.

Another important improvement in the listes model is the geard ball retainer, while the epilinder or platen, against which the paper reast and receives the type inapet, is a part of the earriage. At every finger strake on the kry, the earriage advances and carries the paper along the widne and carries the paper along the widness of a single latter or character, expessing a blank space to receive the impression. When the type strakes the paper the carriage most be perfectly stipl and still as otherwise, the letter is blarred or wrongly spaced. This firmners is secured by the ball bearings which allow closs adjustment. (Fig. 2)



17g. 2.

shows how the steel balls are held in place by the geared ball retainer.

(To be continued.)

A SCHOLARFHIP.

We are glad to hear that the Government of H. H. the Itajah of C while have granted a scholarship to Mr. Peter D'R saviu, a promising young man of Cochin, to proceed to England to proceed his studies in Mechanical and Electrical Engineesing.

. THE PROPOSED COLLEGE OF CONNECCE.

The Bombay Government Genetic publishes the scheme for the proposed College of Commerce as appeared by the Secretary of State. The teaching

staff consists of one Principal, salary Rs. 1,125, two Professors on Rs 875 each, and two lecturers on Rs. 300 to 500 each. The first two will be recruited from England and the third will be held by qualified Indians. The College will be under the Government control and sifiliated to the Bombay University. Thirteen members constitute the Board of Management representing Government, private donors and commercial hodies. The Secretary of State in approving the proposals observed that this was n practical acheme well calculated to meet the demand which may be expected to make itself felt in India for the services of trained actuaries and auditors, more especially in view of the recent legislation, controlling Life Insurance Companies and Provident Societies,

TECHNICIS EDUCATION IN MYSORE.

The Mysore Government have approved of a scheme for the improvement of industrial and technical aducation in the State. The main features of the scheme will be of general interest at present when so much attention is being paid to this branch of education. The Government of Mysore appointed a Committee in October 1910 with instructions to formulate a definite policy and plan of work for developing Industrial education within the State. The Committee now suggests that a college of technology should be started in Bangalore to give Instructien in higher engineering and the industrial arts. For secondary education, it proposes the establishment of a model school of technology in Mysore. The Committee suggests that the spisting ladostrial echools in the State should be improved and developed, as far as circumstances permit, for the improvement of alementary industrial education, The Committee has drawn up modal curricula for all classes of institutions which may be started in the future and has given an approximate estimate of the cost of their maintenance. In places, where the cost of starting such model institutions may be prohibitive, it recommends the opening of special morning or evening classes. The two large Institutions to be established at Bangalors and Mysore will be entirely Government institutions. The total annual cost of the College at Bangalore is cetimated to be Ba 75,000, while a capital ontlay of Re. 3 labbs will be required for initial expenses. The technical institute in Mysore will involve a total capital expenditure of Rs. 40,000 and an annual recurring expenditure of about Rs. 73,000. The improvements in the estating industrials are expected to cost a not additional sum of Re, 25,000 per annum. The Committee recommendathe institution of two scholerships of £300 each to be grant ed annually from the state funds to students offer ing to study soy one of a spec fied number of important industries. The selected students will he expected to study principally the practical end commercial details that may be of service to them in starting the industry in which they have quals fied themselves on their retorn to the State. in addition to these two scholarshins, the committee recommends that two local officers should be con stantly placed on deputation in foreign countries, each for a period of not less than aix months at a time. This recommendation is in view of the great importance which the Committee attaches to the necessity of the State being in touch with the latest developments in arts and industries in other parts of the world This arrangement will cost the State annually about Rs 80 000 for anistics passage money and allowences A special officer will be appointed to control industrial adocation on a salary of about its 1,000 per month It is wisely provi ded that no officer can be an charge of that depart ment for more than three years at a time, unless he has special aptitude for the work, as evidenced by the results achieved. The total cost of this scheme will be He 5 lakhs in capital outlay and Re 3 lakhe per annum for recurring expanditure -The James of Indea

A BAPID METHOD OF SHORTHARD WOITING

Many labour seving appliences have been introducen during the past few years, and it is but natural that time saving inventions should apply as forcibly to intellectual as mechanical pursuits Theats particularly the case with regard to shorthand. For many years all simple systems were viewed with suspicion, because the public had coocered a deep-rooted belsef that a shorthand system to be good, must of necessary be difficult and require years of patient study to acquire eny degree of practical proficiency. Thouks, hwerer, to the marvellously successful "New Rapid" Instruction Courses, surented by F Hervey Hatchard, the Principal of Holhorn Hall College, Gray a Inn Road, London, W. C., it is now possible to fearn shorthand in four weeks. The system adopted at the college a the well known Sloan Duployan method, considerably improved by the addition of many valuable principles of abbreviation, guaranteed to increase the speed of the student by at least fifty per cent, and quickly leading to newspaper and parliamentary reporting The claim "Legible as Print" when applied to shorthand may make some people who remember their own ex-

persences with other systems of phonography smile, and regard the claim with incredulity, but nevertheless truth as stranger than fiction, and at sac' fact that the atndente at Holborn Hall, after nuly one month's study, are able to take down homoess letters quickly and accurately and read them without the slightest besitation or mustake It is little wonder, then, that the college is crowded from morning till night with enthusiastic pupils eager to create new records in the world of shorthand, or to qualify in bookkeeping, typewriting or other subjects necessary for a business career. It is interesting to note that a Situation Bureau has now been opened and everyday requests come to hand from business firms requiring highly qualified assistants to whom good salaries ere offered. The full secretaral course is deservedly popular, as it can be com pleted in two to three months, and is certain to result in the student rapidly attaining an enrible position in the world of commerce For those studenta who ere unable to ettend at the school the enstruction is carried out by means of admirably arranged postal lessons, despatched avery week to almost every country of the globs. The encess of Holborn Hall College has been meteoric, but it is due to ment, and ment alone. It may be said, in conclusion, that students already possess sog a knowledge of another system need not hasstate to take up the "New Rapid," as that progress will be eccelerated by the experience already gamed One Holborn Hall atadent H now Secretary to the Duke of Grafton

Reviews and Hotices,

(THOMAS NELSON & SONS, LOVIDES) 10d., 14.

These three books form a series of excelled handbooks for use in the lower classes of our Secondary schools. They consist of stories smally told from all the hieratures of the world set elikenteed by nomerous performs, several of which ser coloured, full paged ones reproduced from the books are interpersed with instructurations the books are interpersed with instructurations and the secondary of the secondary in the hands of possible secondary of the size of possible secondary of the size of the secondary of the size of the secondary in the hands of forms secondary of the size of the size of the secondary of the size of the size of the secondary of the size of

A BOOK OF HISTORICAL POETRY. (EGWARD ARNOLD, LONDON.) &d.

Historical incidents have very often inspired the poets and this small book its a collection of the more popular of such English positival piece relating to incidents in English bistory from the time of the Roman invasion to the Roman invasion to the Roman invasion to the Roman invasion to the Roman graphic manner can certarily impress itself on the young students mind in a very effective and graphic manner though the post cannot often be trusted for accuracy of detail. This book coght to be a value help in the imparting of bistory to impressionable minds.

The above saries edited by Arthor O. Cooke promiess to he invaluable for a clean grasp by young hope of English industry. Each book gives a complete idea of the processes and labour involved in finishing to perfection the thing or material which the finished stags is so highly helpful to oe. For iostance, in 'a vielt to a cotton mill 'we find on introductory description of the cottoe plant itself and a short account of the raw meterial being made ready ioto thread. The process of carding, warping, spinning, winding, sizing, and weaving are floaly described as well as the crossing and intersection of the threads of the werp by those of woof. 'A day in a shipyard 'is very instructive and ought to he still more so for Indian hoys especially who ere guorant of everything pertaining to that factor which has contributed in the greatest degree to the building up of the glory and prosperity of he empire. The growth of a Liner from a mass of steel and timber to a perfected steemer with great impetus must present us a very ascinsting picture of study and rannot hat ntuse into nur minda an erdent desire to drence our knowledge of ship-building and pariestion. The two other volumes which lest respectively with leather working, and woof weaving, though not so fascinating so the former two, are still posful. The process described in wool wearing is vary nearly the same as that in cotton though the preliminary processes tre quite different. On the whole, the series imply illustrated with coloured pictures, with Ilustrative diagrams, and written in simple style, leserves an cornect ettention from teachers,

Lessons in the History of India for the Higher Classes: Re. f. Lessons in the History

OF ISOIA FOR THE LOWER CLASSES: Ap. 12.
(Masses. Machillan & Co.)

There are two editions of this book, one intended for use by teachers (Model Lessons) in which the chief sim in to serve as a guide in the method of imparting knowledge to hove, and the other for the pupils (the Lessons) in which the biota and anggastions to teachers and the questions have been amitted. In the former, the main object is to so instruct the teachers that they may actively participats in each lesson by answering questions and repeating in their own words what they have read. The frequent fusistence on a concurrent sindy of political Geography and the countant attention given to the slody of canes and effect of the chief avente are notsworthy features of this book, while what is known as the 'Lives of time' which are eminently mastel for preserving to the mind of the boy continuity of the parrative is so entirely new feature. Topical lessons are here and there introduced which show an intimate occupation between Indian History and external and general history. This last is aspecially useful to giving the stodent a clear idea of the motives and the eitostions which greatly influenced the development of the British power to India in its early days. The summeries given at the and of each chapter are intended to serve as eksletone on which more detailed facts may he filled out by teachers thomselves. The Pupils' Edition emingotly serves its purpose of impressing on the mind of the boy what he has been taught orally and fises on his mamory facts which he would otherwise hers forgotten. The etyle is such that rhe boy may himself take notes from the book and is modified as to develop his growing kenwledge of Burlish. The teachers' book for the fower classes is full of instructions and the treatment of the aubject is thoroughly scientific and rational. These books here several features which mark them off from the general run of school test-books on Judian History. We commend these books to all teachers interested in the teaching of Indian History on sound and practical fines.

THE ALEIOS READISS : LONDON: EDWING ARNOLD. (BOMENT: LONDING SETEN & CO.)

Assort. (Bount: Lossings tracer & Co.)
These new readers contain good extracts from
modern prose and verse on various subjects
including even such subjects as! The conquest of

the pir." In Reader No V there is the wall known graphic account of ' The Wreck of the Titento ' contributed by Mr Lawrence Becaly Hackneyed poetical pieces have been avoided as far as possible In Reader V there is at the end an " Empire Garland " of postical pieces beginmog with Scott a Lara of Country" and ending with 'The Call of the Empire" by C E Byles The several readers contain at the end a set of composition exercises which include questions on grammar The grammatical postum is also treated in a modern spirit and umbodies the suggestions made by the committee on gramma tical terminology for the simplification of English grammar Teachers who are tired of old fashioned books are sure to welcome these volumes which are illustrated in colour as wall as in black and white The type and get up of the readers leave nothing to be desired

(1) A Halth Resord for Loday Hum Schools, by P. C. Wers: (Messes Machillan & Co., Loddon) Proc 26: 18: (2) The Way to Halth (The Christian Lethard up Schott): London, Modes and Columbo, Proc 4s. 2 (3) Talks on Halth, by Mes Bridge (The C. L. Society London, Meders and Columbo.)

A knowledge of the elementary principles of byguns and scattain us of noch importance to the walfare of the community that it as a matter for wooder that it has been practically neglected in a great many of our achoole. We remember a time when hygunn as each was echool subject. But these days have genn by. Parhaps the charges in methods of intenting and the favorase of suitable books for use in school might partly account for this state of thongs.

(1) Mr Wrus shocks an admerable present much of the subject and quite pp to date fire southly illustrated and clearly ground. The shapter on Infectiona Diseases as well written gring the causes, the methods of prevention obspired cavoled to the accuses of man. There are negliciary to the disease of the diseases and editions conditions. There are negliciary to the disease of the diseases under different conditions. There are the disease of the disease are diseased to the disease and the disease of the disease are diseased to the disease and the disease of the disease are diseased to the disease of the disease and the disease diseased to the disease diseased to the disease diseased to the disease disease diseased to the disease diseased to the disease disease diseased to the diseas

(2) This is a cheep and neefal pablication, but we think that the remarks on p 23 regarding

⁵⁵ Batel chewing "might be extended with greater force in thin "smoking of tobacco" now a rusing fashion. It will be needed to notice that in England messures are based taken to prevent presents amplying.

(3) This is a book for Indian house-wives and is written with the sympathy characteristic of the author. It would have been excellent if in defenses to Indian annimed; the use of borebarroad had not been specially recommended on g. 9, though no its eleaning power it is really expected to wood observed.

Exercises in Geometry, with Woll Solutions and Figures, by Hirabal L. Raji, M.A. B.So. Price Re. 1

This is a neat little volume of about 150 pages divided into three perts. The first part consists of easy exercises required in the solution of The second part consists of mis harder ones cellaneous exercises presenting some difficulty and providing a higher and advanced course of study' within the Matriculation standard The there part contains full solutions with figures of threxercises of the Bombsy University Matriculation papers in Geometry There are on the whole more than 400 exercises judicionally selected and methodically erranged. The exercises are purely of a theoretical character but the studeof may find enough practical work to the solutions of problems which are separately collected togother at the end of the first and the second parts

The willing student of Geometry the luttle values will provide single scope for an advance study of the subject. The terms concurrent, of least, orthe center median, Xo, are freely said. The merit of the book is enhanced to no figure sheing given for the solutions of Mucolinarous Exercises. In this part the author might have done better if he had only contented limited that samply given plants for solution towns in all opinion that however the solution towns in all the said of the solution of the solution

PUBLICATIONS RECEIVED. Studies in Local Self-Government, Education

and Sanitation, by A. P. Patru of Berham-

poro. Madras: G. A. Nalesan. 12 Az.
Dew and Mildew, by Peroivel C. Wren, M. A.
London: Longmans. Gs.
Life and Work of Pestalozzi, by J. A. Green,

M.A. London: Clive. 7s. 6d. *

- An Introduction to Zoology, by Rosale Lalbam, B. Sc. London : Macmillan. 7s. 6d.
- Junior Geography, by G. C. Fry, M. Sc. London: Clive, 2s. dd.
- First Books of Science: General Geography, by B. C. Wallis, B. Sc., F.R.G.S. London: Macmillan. 1s. 6d.
- Classified French Unseens, by W. G. Hartog, M.A. London: Cliva, 2s.
- Exercises in Logic, by F. C. Bartlett, M.A. London: Clive. 2s. 6d.
- Preliminary Arithmetic (with Answers) by A. Barraclaugh, M.A. London: Clive. 1s. 9d.
- Classified Passages for Translation into French, by W. G. Hartog, M.A. London: Clive. 2s.
- The Philosophy of Marriage, Vol. 1, by P. Krishnamachariar, Srirangam: U. P. K. Publishing House. Es. 1 4 4s.
- High Roade of Literature in 3 vols. Vol. I, 104. Vol. II, 1s. Vol. III, 1s. 3d. London: Nelson.
- The Seasborn I Know, by W. P. Westell, F.C.S., and Henry E. Turner. London: Doot, 84.
- Regional Geography of the World (in Tologo)
 Part I, India, by M. Sitarama Rao,
 Cocanada: Scapo & Co. 10 As.
- English Grammar, by Ctto Jaspersen, Ph. D., translated, by Ren Sabib G. V. Bemamurti, B.A. Bombay: Longmans. 6 4s.
- The Pupile' Coorse of Constructive Work, Sat I, combined with Arithmetic, Drawing and Modelling in 3 parts. Book II, 4d. Book II, 5d. Book III, 5d. London: Macmillan.
- The Papils' Course of Constructive Work, Set II, combined with Geography and History, by J. S. Lay, in 3 books, London: Macmillao. Book I, 4d. Book II, 5d. Book III. 5d.
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- with applique work and cardboardmodelling, by J. S. Lay, in 3 parts. London; Mecmillan. Book I, 4d. Book 11, 5d. Book III, 5d.
- Reform Arithmetic, by P. Wilkinson, B.A., BSc, F.R.A.S., and F. W. Cook, A.C.P., BookVl, Girls' Edition. London: Macmillan. 33.
- Reform Arithmetic, Teachers' Book V, Girls' Edition. 9d. Teachers' Book VII, 1s. London: Macuallan.
- The Children's Story Books: Four Winds Farm, ste. 1s. Tales from Esop, atc. 6d. Fairy Tales from Francs, stc. 9d. Little Wanderlin, etc. 9d. London: Macmillan.
- Lessons on Character Building, by W. H. Baldwin and W. Robson. London: Nelson. 1c. 6d. net.
- Elamantary Algebra, Vol. IV, by Godfray and Siddons. Cambridge University Press, With Answers. 3s. Without Answers. 2s. 6d.
- Four Figure Tables, Godfrey and Siddons, Cembridge University Press. 9d. net.

3ndian Educational Rotes

MADRAS.

An Association in Guntur -- Mr. D. V. Jaganedban, Ra , Senior Hist Asst , Town High School-Guntur, wrates :- The teachers of all the leading institutions-the College, the Town High School and the High School for Girls-combined themselves into so association with membership open to all teachers and such others ss take interest in aducational matters. A strong executive committee including six office-bearers (a president, 2 vice presidents, a secretary, a tressurer and a librarian) was formed. The objects are to improve the work and states of the teacher and the special features being working in sections for subjects with one for elementary school work, a library and magazines and special ateps to improve the status. The brat thing is to recognize what is done for them. In this strain, resolutions expressing the congratolations and thanks were sent to H. E. The Vicercy, the former on his troovery and the latter for his assurances onchanged policy and liberal policy in respect of educational matters; expressing thanks to H. E The Governor of Fart St. George for the great apterest extraced in educational matters and for the nomination of the Hon. Mr. V. S. Sreenivasa Sastry to a seat nu the Legislative Council; expressing to the Hou. Mr. T. V. Seahagiri Aiyar thanks for work done and congratulations on his re-electionand to the Hon. Mr. V. S. Sreemvasa Sastry congratulations on his nomination and hopes of great

[May 1913.

achievements. In eddition to aphyecia that concern the teacher in his work, various topics of general interest engaged the attention of the saccustion -Tho questions of minimum pay and famine ellowences, the questions of Procident Fund and Mutual Benefit Fand, the qurations of a special minimum in English and of specialisation at the 4th form stage, the question of aupporting the proposition to lorus advisory boarde, the question of requiring the S S L C candidates to undergo two years training etc. etc It goes without saying that there is a great need for combined and well organized action on the part of teachers and the S 1 T U calls for the same, There is an enough conference for the first circle. Will teachers of all important places form themselves 10to aracciationa, will euch associationa form central associations to impera strength and pointedness, and sail they bester themselves for what they need as in the case of district and other conferences? Ara teachers, who, by the right of these profession are expected to he teachers and crisice of the activities all over, secapable of anch wallorganized and well-disciplined combination? "No! They are got incepable They are yet . living force for all porposes of athers and of sheir

Govelasamudram School -- On Monday 5th May the account distribution of prizes to the students of the Gopalasamudram High School and the acquirereary of the High School Associating was celebrated with M.R.B. S E. Valkuotam Iyer Avi BA.
BO E. Sector Leccotive Engineer, Trevancore, to the chair Among those present were Mesere I Srinicase Iyer, BA., Principal, Hinda College, 2 Stincese 19et, D.A. Principal, Hinde Course, Thousvelly; A Ramakrishna 1yer, R.A., B.L. High Coart Vakil, Talementish, C.S. Sondare Sassey, Coart Vakil, Talementish, C.S. Sondare Sassey, Subramany Jyer, M.A., L.T. Payane Professor, Modred College, Madras, and P. Subramana Sasme of Quilon. Between b end 6 p m interesting items of aports, competition for infants amongst which were word building, mathematical tyrpes, lime picking and gymnastica exgeged the resion in the school compound Befreehmensa were also served. The meeting begen with preyer and music. After the Readmanter a report which was a caview of not only of the school work during the year but also of the chief educational pronouncements of the year, the control of the came in lamil was given by Mr. I'. A Backara Iyer, BA, onth an impresarenase and force of his own. The cert item in the programma eas the report of the working of the association by its secretary Ners there was an interesting ceries of converestions in Sansarit, Temi and Luglish, the most notable of which was a pieca of declamation on 'The British Prietlege of Grumbling" A scena from P Sam bhandam a Masohara was also enacted. Special prises fie these itams were anarded by Mesera R. V. Viseanathe Iyer, B.A. B.L., Bigh Course Valil, Tulicate and A. Hamakrubne Iyer, B.A.

B.L. Vakil, Palamontab. Prizes were as may as 75 necloding class prize, sprize) prize for naters study sic and for sports and symmetric maters study sic and for sports and symmetry winders and thought the interesting proceedings to a close in very impressive special Majorite Alfred Cheer proposed to their imperial Majorite Alfred Study of the Study of th

A School Day Celebration .- The nowly formed Old Boys' Association of the Board High School Dheraporam, celebrated the first School Dey Celebration recently There wer an excellent programme spread over the whole day. The old atudenta wars treated to refreshments in the morning Towards the ovening, there was music and a tea party A group photo was then taken. The meeting began at 6 r M., with Mr. K. Anapthaenhramania. Anar. BA, on the chair Thern wee e very lorga attendance of ald boys. After the election of the officebearers for the year 1913 16, the nanal tosats were proposed Mr Alagiriswaml Beddier, nl Dalerm patnam, proposed the first toest to the school in an eloqueot speach in Tamil, which was responded to by the Headmaster, Mr L S. Penchepskess Asper, a . . LT | ibe accound toast to the Association roposed by Mesers Narayana Dase and Ramakrishoan, a & , was responded to by the Chairman is e neat little speech After votes of thanks by Ma Sunderam Aspar, e a , to the Secretaries, Mesere 8 Narayaoaswami Alrer and D. K. Krishbaswami Arger, to the authorities of the school for the kind loan of the hall end to the Chairman, there was some enteresting vocal music, efter shich the old boys dispersed and so eventful day came to a cluss-

The Presentation Convect College—The annual distribution of prizes to the popular connected with the College Department of the Presentation of the College Department of the Presentation of the College Department of the Presentation of the College Department of the College Depar

Mahaot's School. Vallors.—The interesting fortion of the distribution of prices to the pupils of the Ses Mahaots Berestanam Hindo High behad Vallors, took place in the A.Lool premises of Vallors. To saine of the city were precent on the occasion and the chair was occapied by she Hiseb-Mr. T. V. Schalguri 15cr. Tha proceedings begin with a prayer and was followed by a number of recitations. Mr. P. S. Raghavachart, Readmaster of the School, then read the report for the year 1911-12, and that disclosed that satisfactory progress had been made during the year ander report. The Cheirman next destributed the prizes to the pupils. With e vote of thanks to the cheir the meeting terminated.

Madnrentakam Union -The sixth anniversary of the Madurentakam Progressive Union was celebrated with great solat on Thoraday, the 15th instant, under the presidency of Rao Bahadur S. Remaswamy Iyengar, a a . a L., Judge, Small Capre Court, Madres 'The function took place in the Edward Memorial Hall and precisely at 5 pm. tha meeting commenced. The Chairman ster a short preliminary speech introduced the lecturer Mr. R. N. Aiyangar, Barest-Law to the audience, Mr. Aiyan. gar addressed the audience on "Life in London" for shout on hour. This was followed by a short and interesting speech by the Rev. Mr. J. P. Strisepton. B A , the local missionery with the aid of a map previously prepared for the purposa. The proceedings terminated ofter o few remarks from the chair. Again at 9 pm. the members enterteined the public with a dramatic performance of " Manohara" in Temil by Mr. Samhandsm. The drama was a grand encoses. The mambers acquitted themselves oraditably.

A Young Men's Association.-The fourth annivarsary of the Young Man's Association, Banga-nayakolopet, Nellore was celebrated in the V. Beligh School Hell very recently. The gathering consisted of a large number of gentlemen and students of the place. Ran Bahadur T. Raghaveiya Garo, BA, officiating Collector of Nellove. presided The proceedings began with e preyer in Sanskrit and Telogu. Then the Chairman made a few intorductory remarks in which he expressed his pleasure at the opportunity that was afforded to him for making the sequentence of the students and gentlemen of Nellora sa soon after his errival there. The Secretary then read his reports an the working of the Association for the year 1912.13. After this Mr. C. Malekondairs, B.s. read e short, interesting and very matricure paper on "The Choice of Books." Next followed e faw choice scenes from Harischandra (in English) which were anacted by the members of the Association Then the Chairman rose amidst cheers and made a short apeech. He congratulated the members on the excellent entertainment they had given and wished the acciety an active and useful year. The Chairman and the lecturer were garlanded and the customary votes of thanks were proposed by Mr. V. Nerssings Rac. B L., BL., on behalf of the Association and responded to, whereupon the meeting came to a close.

Government Grants.—The Government have sanctioned a grant not exceeding two-thride of the schull expenditus, or B. 3.467, towards the cost of extending and unproving the buildings econpied by the St. Joseph's European Middle School, Tellicherry.

The Gavernment of Madras barn specified the appenditure of Rs 2,200 towards the construction of buildings for the elementry schools at Gamma, Ojjaigads, Namanagaram and Dothara in the Ganjan Agong.

The amount of the grant senctioned in Joly 1911, towards the cost of constructing a building for the High School as Surangam has been, as especial case, rassed from Ra. 10,000 to Hz. 18,000 on the andorstanding that the entire excess amount is develed as the actionism to the school buildings develed as the actionism to the school buildings develed to the outside the continuous to the school buildings reasonable to the conditions, that in carrying out the axionation the suggestions of the Chief Engineer are adopted and that still the conditions prescribed in the formation. All Code have been duly compiled with in respect of the suitnessions. On these conditions come axialships great with the poid as though the come axialships.

The Government of Madras have sanctioned a grant not esceeding one-half of the ectual expenditure or Re 27,153, towards the cost of extending the Timkettoppell High School buildings, Taniore.

The Government of Madras have approved the proposals of the Director of Public lostruction for the distribution of the special grants of four lakhs and Rs. 30,000 for the equipment of Secondary and Elementary achools, respectively. The following are the conditions under which the grant will be allotted :-(1) that the amounts be distributed emong the schools without insuling on a propore tionate contribution from the management, (ii) that the special grants for Secondary schools be given not only to sided schools under private manage-ment but also to Local Board and Municipal schools. (iii) that the special grante to Elementary schools be given to schools baying stendards above the fanrib, (iv) that lump alloaments be at first fixed by the Director for each of the Boys' and Girls' Circles; and Inspectors and Inspectrenses be requested by him to furnish statements showing how they propose to distribute the emonnts among the schools in their Circle, having regard to the special needs of each school (v) that after a scruting of these statements the amount of grent for each school and the objects upon which the money is to be spent he datermined by the Director and correspondent authorised to draw the grant immediately on a hill countersigned by the leapector or Inspectress of the Circle and required to submit vonchers in support of the expenditure to the latter for acruting.

The Town High School Association, Kumbakonam —Ou beer coung of the Solth April the members of the Town High School Literary Association, held their numerostry in the Upper Hell Professor Snodra Blams Alyar presided. The school staff, the students both past and present, some prominent members of the Commuten and parcots of stadents had assembled in large combers

The proceedings began at 5 rm. There were recutation by one of the sindente of Shekespeare's 'The Seven Ages of Man. 'The Secretary read the report for the year which showed that substantial work had been done.

Professor Sundara Rama Arpar then rose amudatcheers and untrolned Mr. B. Y. "Obbramanyam Arpar who lectured on "The Unefoliers of Debuing Sociation to Yunon Mrs." The lecture accepted fullhalf an hour and though it must have been very tigning to the lecturer in the dingy and sufficesting atmosphere of the hall it was not in the least so to the endersor.

A Golden Jabiles—Io view to the echbration of the Golden Jabiles of the Town High School, Kumhakonam, whole tomes off cest April, it is proposed to prepare a correct and complete has of the alamns of the School, and they are requested to communate to T K Syrayana 1yer, the Sicrotary, at their earliest convenuous, their pre-sand designations and addresses

Madara Government Girl's behool —The aconal prise-group of the Occarmon Chri's School, Asteins, took phese in the School List at 4 20 Feb., you have been been been considered that the state of the Control of School, Truchy Madara Girl's Raogy, in the other Them was alsega, extendence of gentlemen and Them was alsega, extendence of gentlemen and Illed Matares send the report on the washing of the school for 1912. The Charman then gare were the school for 1912. The Charman then gare were the school and Feb. 18. This sum gives an industry the school and the school for 1912. The Charman the gare were the school and the school for 1912. The Charman the gare were the school and the school for 1912. The Charman the gare were the school and the school for 1912 the Charman the gare were the school and the school for 1912 the School and the sch

closely and accorately so as to form in them behits of scrutiny which would result in the sharpening of their access Mr K Parsbrahmam of Chicacole read on elaborate paper rn "Tho Teaching of Uistory in Correlation with Geography" In the course of the paper he showed how the subject might be made to beve ite beginnings in naturestudy, or the ammediate neighbourhood of pupilsthe aky, the sarth, the fours and flors, together with the dators | phenomens of every day life Mr C Rensford in bringing the proceedings of the Conference to a termination, said that it was the first Conference in the Circle over which he had presided Ha regretted that more speakers on the subjects brought up for consideration were not forthcoming and boprd that the programme from the orat year would be modelled on different lines. After the usual rote of thanks to the chair, the Conference dispersed

H. E. the Corrector opens a Secondary School— As the sponey of the Munneyd Secondary School at Ostoramusch, their Excellencers Lord and Lody Fundand formally declared to spon On their arreval their Excellencers, who were accompened by Capp. Campbell, were met by the Charmon of the Municipality seed the Collector. The Municipal Concelliors, Persistend Mr. Kershew were climdoced to Ilva Excellency. Mr. Hendocch, the Charman, then read a hard blazery of the School

Dis Excellency replied as follows -Mr Chairman, Mr Yonog, and Gentlemen -I can only easy that it is a great pleasure to the Excellent y and myself to he have this morning end to be able to join with you in mangurating this new school. It seems to make sign of energy and progress that this Municipality and those wlom as represents should require these addi-tional educational facilities. We cannot do hetter, I think, for those who come after us then to give them the fullest opportunity possible of developing their faculties, and making use of facilities which subsequent careers may offer to them We educate the children well We are doing the heat we can for them and I rejoice to think that Octacemend, in opening this school, hes afforded a further opportunity of this kind, and I bope it will be widely taken advantage of I am already aware that you have advanced a step for ther than in represented by this building, and that the Government have decided to add classes to this school which will transform it from what I think is known as an is complete secondary school That, I believe, is to be done gradually, year by year autil the full measures of a complete secondary school is attained I congratulate Octacemend of this evidence of vigour and desire for advaces, and these additional facilities which Obtacamend owes Government, as I said before, I hope will be widely taken advantage of It will be a great pleasure to Her Escellency and myself to watch with interest the way in which these facilities are utilized, and welcomed, by those whom they are intended to benefit. I am very glad to be here, and its is my doty now to declare this school building epan whish I shall now have an opportonity of inspecting. Their Encilercire, in company with Mearse Handcock Kershaw and Yonge, and the Hendmaster of the Control of the Control of the Welling of the and inspect of the Control of the Welling of the and inspect of the Control of the Welling of the world of the National Control of the Welling of the Voto of thanks to their Encellercies on behalf of the Obtacement Municipality and proceedings came to a bappy termination.

CALCUITTA

Mahomedan Scholarships -The following Notice eppears to the Calcutta Guartte above the sirosture of Mr. W. C. Wordsworth, officiating Director of Public lostruction, Bengal :- The Mahomedon officers of the Sattlement Department under the late Government of Eastern Bengal and Assem have rained a food named "The Mehomedan Education Fund." out of which it is proposed to award, on the resolts of the Matricolation and Intermediate Examinations. respectively, two junior and two senior acholarabips, each of the value of Rs. 90 per annum, to selected Mahomedan students who do not hold any other kind of scholarship. These scholarships are tenable only in the Dacca College, and the recipients must live in a hostel attached to thet institution. In making the owerd the pecuciary circumstances of the candidates will be taken into consideration, Intending condidates must state in their applications whether they era tone fide natives of the Dacca, Rajebehr and Chittagoog Divisions and of Amon, or have reed to a echool or college in those areas recognized by the Education Department. Applications should be submitted to the Principal. Dacce College, through the heads of the lessitutions from which the candidates pass the Matricolation and Intermediate Exeminations, respectively, as soon as the results of these examinations ern published in the Guzette.

ALLAHABAD.

Primary Education — A small Representative Commutes will meet in Nain Tel serigi in James to consider the whole question of Primary Education in the United Provinces, both for boys as alguera. Mr. Figget, Judicial Communication, Dodds, will be present the property of the Province and the Province of t

Education in Guited Provinces—In the Resolution on the general report on public instruction in the United Provinces, tha Linch entertaint each test is a record in substantial progress achiered in signost all directions. The controlling

ainff has bern largely increased, and eslaries of its enbordinate officere revised, extensivo reforms have been carried out in the system of Secondary education, marn High Schools heve been established by private effort, pay and prospect of teachers in Government Schools have been improved, and more Training Institutions have been opened. The Heatel exatem has made notable atrides in popularity and efficiency. Technical education has been entirely reorganized and expanded In Primery and Female education slone the edvance has been relatively desappointing In connection with European rdn. cution the notable achievement was the reorganization of the Murtimern College at Lucknow to carry oet reforms necessary to save this famone institution from decay Grants have been made by the Government and the Bigh Court of Calcotta hee recently sanctioned the achema which provides for the substantial increase in the annual payments to College and large building grants The average enrolment in the European schools was nearly five thoosed and the total Europeen and Eurasian population was about forty-two thousand. Arening from this figure the report suggests that there is possibly a considerable number of children who remain wholly needucated. The Ceosus figures. however, include soldiers and afford therefore up onre basis for estimating the school-going population. Available evidence Indicates that the number of boye not cent to eny school is extremely email. and on the other hand an appreciable number of girle receive little or on education owing to the inebility of their perents to provide for the educala the condition of European education la the very early age at which children leave school. For these defects the Government action can at heat provide very partial remadies. The Lieotecant Governor hopes, however, that it may by in his power to sustitute some acholarships for boys who desira to take University Degrees and to make grants to enable schools for girle to accept papile on reduced

TRAVANCOBE.

At the Eighth Session of the Travancorn Popular Assembly, several Members prayed for a few scholarships being instituted to each school, irrespective of the distinction between backward and for aard classes. Tue Dawan admitted in reply that the Government recognised that a certain smoont of encouragement might, in some cases be found to creeary to be given to poor and deserving etadents, and he added that the question of scholarships was under consideration, and that, when the matter was disposed of, the Aided Schools would be allowed the same privileges as the Departmental Schools in this respect The Director of Public Instruction has since submitted a rehema for the matuation of scholarships generally. His Highnasa Government have now passed orders on the subject. No fees are now levied in any of the

Lower Grade classes of the Elementary Schools. the fees charged in the higher grade classes are normal: the number of the Higher Grade Elementary Schools is in the view of Government, large, and it is also rapidly increasing, and the paroute could give their children education in these schools near their homes and for quite a trafing post. The Government do not consider at uccessary to institute either acholarships or allow any fee concessions in Elementary Schools in regard to Secondary Education the cost involved in the first four classrs is not say the Government, great, there u at least one Lower Grade Secondary School in almost every taluk, the rate of fees charged an these classes is comparatively small Further, until a numi passes through the highest form of a Lower Grade Secondary School at se probably too sarly to judge whather he could, with admotage go bigher up On the whole the Government feel it usedless to provide for scholarships on any other concessions in the Preparatory Classes or in Forms I II and Iff of the Secondary Schools In the Higher Grade Secondary Classes, however, the Government recognies that it may be necessary, in some osees, to give encouragement to pupils of real ability. The Government would in these achools, prefer the anstitution of scholerships to the revivel of the former system of exempting pupils from the psyment of fees. The Government anno-tion one acholership of the value of Re (5) five per mensem being granted to the pupil who passes highest from Form III of each Recognised Lower Grade Secondary School (Departmental or Private) in the State and who continues his cones in a Recognised Higher Grada Secondary School, Departmental or Private, also in the State Those scholarships will be tenable for three years and will be granted irrespective of the question of the mans of the boys. By this arrangement, each Recognised Lower Grade Secondary School wuntd secure one acholarahip, to send up annually its best student tu study in a Recognised Sigber Grade Secondary School for obtaining the School Leaving Certaficate Regarding actions haps for the Cullages, the Government would proceed on the same principles as they have laid down above for the Sroudary School Each Recognised Higher Grade Secondary School so the State will be allowed one scholarship, of the value of He 10 per monseus to be granted to the student who gets the best School Leaving Certificate in it and who continues his education in a Becognised College in the State These acholarships will be tensile for two years. In the BA Classes of His Highness the Mahsrejah's College, Travendrum, fire scholershipe of rajah's College, Trivendrum, hrs schoisrahps of Ba 15 each per measan, will be granted, one to such of the students whu pass highest from the O M S College, Notizyam, and the Scott Christian College, Nagercol, respectively, in the Intermediate Examination, and three achdistrahps to the three highest sindests passing the say examination from His Highwest he Maharajah's College, Trirandrum, and who continue these studies for the B. A. course in the Maharajah's College The BA scholarships will be tenshis for the whole course. All these scholarships will be called His Highwese the Maharejah's Scholarships This scheme will involve a mazimum expenditure of Re, 17 640 per suum and will take effect from the 1st Mithogom 1088 The expenditure required for 1088 in Re 1,190,

MYSORE.

College Councils -The Government of Mysore have sanctrumed the for mation of College Councils for the seternal management of the Central College Bangalore and the Maharajah's College, Mysore Thera as such a Council for certain Government Colleges in Braiseh India The Council will consist of the Principal and the Professore of the College for the time being, the Principal being ex-officio President owned and removed being exogene results of the Gouncil will appoint one of its members to be Secretary, and the Professor appointed will hold office for one year, but shall be cliquid and the control of the control is componend to consider and report on any question concerning the College, whether se regards accommodation course of instruction or discipline But, ascapt when such authority is temporarily or permanently entrusted to it by the Principal or by the Impector Genera of Education, it should not interfere with the general administration of the College, which is vested in the Principal acting under the direction of the Inspector General of Education

BARODA.

Mess Education -In eddition to making mess education free and compulsory. His Highness the Mataraja of Gackwar has introduced stiractive amorations such as travelling libraries and moving produce exhibitions to educate the masses travelling histories have already broome very converted to the popular and there are \$4 of them pow Of these popular and there are \$5 of them pow Of the total power of the total number of books have the total number of books have people of the depressed classes. The toss due bee of books has gone up to result 450 and bee of books has gone up to result 450 and private gouldman are adding to it by gits in private gouldman and adding to it by gits in that each set should contain Mahabetel, Ramatan et al. 1997 and to book and a souther suggesting made at the contain Mahabetel and to book and a souther suggesting made. greatum made is to increase the number of books an each bex to 100 It is gratifying to leave that the books reach a lt-clauses and denominations lof the peo pla. Mr Gould who vanted Barods, has suggested the formation of a children's library with illustrated books and protures. The Education Department has just introduced muring picture and lautern rabibpurpose A staff of mrn go about from place to place giving free exhibitions of the pictures with suitable explanations. In this way the trate for konwledge will be created and progress of school education for the masses greatly facilitated. Truly H. H. the Maharaja dracryes to be congratulated on the wunderful manner in which he is striving to advance the cause of education in his State.

INDIA (GENERAL)

The Education of Muslims—The Government of India bare issued a crously letter dated the 3rd April 1913, to all Provincial Government address the substitution—As observed in Français by Tot the Government of India Resolution No. 301 C. D., dated the 21st Petratry 1913, the increase is the number of Mithousedam at school has been reprinted to the substitution of the

With some general observations they commend the whole question to the careful consideration of Local Governments with the suggestion that a committee should be appointed to make recommendations. The Government of India will be glad to be iglormed in dns conrec of the general conclusion, which Local Governments have resched. They do not deare to receive particolar achames, but they are deeply interested in the question from the Imperial point of view and they will be glad to know in congention with the allotment of any funds which may be available what duancial help is desired from Imperial revenues. Forthermore the Secretary of State has recently enggested that the annual reports of Public Instruction might with advantage deal with the progress of Primery Education among Hindos and Mahomedana respectively. This treatment as regards Mahomadane might well ha extended to some special mention of their advancement in different branches and grades of education. Attention is invited to the anpula-mentary tables regarding Mahomedan education in the reports from the Madras Presidency.

Foreign Rotes.

GREAT BRITAIN.

Entrance Scholarships at Cambridge—More than £10,000 were distributed to 216 caudidates for outrance exbolarships at Cambridge Colleges between the beginning of December, and the and of Marob last, The largest amount was devoted to Causios, which obtained £350 divided among 72 candidates, Mathematics and Natural Scotters are considered, Mathematics and Natural Scotters are considered, and the second of the consideration of th

Open-lir Reaching — An interesting experiment in open-sir teaching to being made this amount, from April to October, in the plsy-promoted Others. Decided County Conroll Ectober 10 the proposed County Conroll Ectober 10 the open of children of approximately like ages and close the control of the county of the

Untrained Teachers -The Annual Report of the Board of Education deals somewhat fully with the training of teachers in secondary achools. Tha Board do not attempt to minimize the serionspesa of the problem. " Only a small portion, " they say, " of those who teach in secondary schools have made any attempt to qualify themselves for their work by professional training," and "a large num-ber of teachers are employed who are seriously deficient in professional skill." The Report goes on to say that "the work of a large number of those engaged le teaching is to a large estant ineffective; and that this Intflactiveness is at any rate in many cases, partially caused by faults which are capable of remedy by advice and instruction ; and that there are often serious defects in the work of even the abler teachers, which are also such as might have been avoided by timely belp." These are aerione charges, and they are made by competent Inspectors who have not been brought up in the tradition of a narrow professional training.

A School of Geography -The Yorkshira Some mer School of Geography will be hald at Whithy The buildings of the Counfrom Anguet 4 to 23. cil School bara been lent by the Governors for the parpose. The Summer School bas been instituted by the Universities of Leeds and Sheffield with the co-operation of Armstrong College, and of the Education Committees of the three Ridings, and of county boroughs in Yorkshire. The chiect of the school is to provide theoretical and practical instruction in the methods of Geography and to furnish opportunities for the discussion of problems conpected with the traching of the anhiert. The course will consist of lactures, is borstory work, field work, and demonstrations, and there will be whole day and half-day escursions in connexion with field work. All the apparatus need will be simple and inexpenarve, and methods applicable to school work will be adopted. The aubjects of the lectures will in-ulade: The Geological Structure of Yorkahire, its Historical Geography, Language and Placevames, Sites of Tuwos, Architecture, Vegetation and Agriculture, Gaseral Economic Geography, York. Agreement, sacersi Economic Geography, 107s.
shirm Mining (past and present). Textile and Iron
and Steel Industries of Yorkshire, Meteorology
and the Teaching of Geography. Among the
Lecturers will be Prof. Kendall, M. Sc. P. G. S;

Prof. F. W. Moorman, B. A. Ph., D. Mr. A. Ollugan, B. S. F. O. S., Mr. I. Rodwell Jones, B. Sc., Dr. W. G. Smith Ph. D. Mr. W. P. Welpton, B. So., Mr. P. W. Deld, B. A. Olhee Itscherers will deal with special brunches of the work. The charge for admission to the whole course as 23, and the number of students will be limited to about 200

LITERARY NOTES.

The Economics of Land Values—In a volume cotilled "The Economics of Land Values," which was the Committee of Land Values, which was the Hardel Storry, Surveyers of the Varishina Labers! Federation shows the extraordinary postion bold by Lend in the production and distribution bold by Lend in the production and distribtion bold by Lend in the production and distribtion bold by Lend in the Labers of wellcommunity, and argues that unless come reacted, mammonity, and argues that unless come reacted, manually and argues that unless come reacted, manually and argues that unless come reacted that the Labers of the harings. The author shows what it will do, and what it cannot do, and by fresh line of exponenproves the accessary for other supplementary from a Lasation. The book allowed as complete sade of very supersory.

Life of John Bright — Mesers Constable annooned that they have no advanced propromision the authorised "Life of Lord Bright," by Mr. G. M. Treville as above it the popular books on Gerabaldened the well known critical study, "The Poerty and Philosophy of George Messeith" The important book, which will be profusely illustrated may be expected short, which will be profusely illustrated may be expected short.

George Bell and Sons—The firm because a lunted company in 1910. Although the se in the Beln company in 1910. Although the se in the Beln in 1911. The second is a proper section of the second in a part of the second in the second department; and Mr. Guthbert A. Williamson. The secretary, Mr. Department of the second in the

successors bousehold words with a wider circlethat great and growing peblic that welcomes good books sta price comparable with that of the ophimeral and worthless, of which it has more than monoph

Lattle Rocks on Art—The Intest addition in Means Methods end Rockers — alth Rocks on Art "is Tarily Roglash Water-colour" by Mr. C. Blughes Broodly speaking, the Early Roglash School of Water colour includes all nature to that medium who were born between 1720 and the term Early English as however, in the work of the term Early English as however, the work of many later actives resembles in subject or medium who was the state of the state of the children of the children of the children of the anthor of the children of the children of the children of the anthor of the children of the anthor of the children of the ch

Simplified Spilling—The authorities of the Simplified Spelling Society announce that they are about to publish a "First Reader" for very young children. It will be prepared in accordance with the Report of the "Eyeaght" Committee of the British Association.

The Moking of Historical Focias—A nesfel cumwary of "The Miking of Historical Fiction" by Mr Ernest A Beker, appeared in T.P. a Wiself for April 11th Many teachers who have obergs of school labraries will find therein justifices reference and utiles which will render them great assentance.

Rennanc Psychology — Depthologs and facilitation of Efficacion, by Hong Munachery (Gonzálas, for met) Students of the older psychology may find in difficult so to read objust their conceptions as to describe as control of compositions and the second of compositions are to make the second of compositions are to conceptions, or with analysis of intellectual for coverage and stuff lines after six perspections, or with analysis of intellectual for coverage and the second of th

The French and the Enclush, by Learned Clarend (Chapman and Ball, 76, direct) Albarond and the Enclude has not toot be knowledge of English acquaring his bondedge of Facilities of the English and the California for not the California noted the Prench California for the California noted the Senting the California for the Cal

woman have red heir, but in the spirit of a philosophio sportsman who, beving started his quarry, is resolved to pursue it relentlessly and beat every hash in which it may conceivably conceal itself. His dominant idea is that the difference between the average Englishman and the everage Frenchman as the difference between poetry and prose. It is a difference which the literature of the two countries indubitably reflects. A French Shelley is unthinkable ; and an Eoglish Moliere at all events does not exist. Mr. Jerrold scoks, and finds, a similar line of cleavage between the manners, instantions, habits of thought, and points of view of the two countries. The French, he mainte, are more intelligent than the English, and more artistic because they are more intelligent, and, at the same time, more orderly, more practical, more obviously conscions of a definite objective in the conduct of their lives; they murch towards attainable goals, and are generally clever enough to stain them. The English, on the contrary, are on an average stupid-equally indifferent to art and to ideas-hut are redeemed by a bidden vein of poetry and addiction to dreams and visions, and a fatent possibility of romantic extravagance which the French sometimes edmire but saldom understand, and herdly ever imitate.

Mesers. Macmillen & Co. ennonece the publication of the following books.--

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Letters from Solitude and other Resays, by Filson Young (Chapman and Hall, 5s. not). These charming papors need no praise. Thay have siready largely increased their author's widespread reputation as one of the most thoughtful and delightful writers of the time. There are four-and-thirty of them. and all of them are different, save in the freshuese of their view and in their uniform arhealty and grace. Mr. Young is fond of travel, and many of the papers are "travel pictures" of rare beenty and imaginative force. Whather the solitade from which he writes he in France or in the West of Ireland or in the tropic sele of Tripidad, he is sore to see things that no one else has seen, and say the things he has to asy as no one elso would say them. His bnesness, he telle us, ta " to aindy baman nature la as many places and nuder as many different conditions as possible," and wherever he goes he is pontineally engaged in "the carloos process of mannfactoring literature out of life."

Byron:-- Slight variations may take place, but to all intents and purposes Byron is classed once for all. No competent critic will aver deny his somewhat febrile bot still overpowering force, his originality after a kind, his close connection with and underatauding of certain not specially exalted or even apecially interesting, but genuine, widespread, and constantly recurrent, moods of the modern human. mend. No one will ever deny the power of his versa as a poetical intoxicant in certain cases. But also nn one will, except with the largest restrictions and qualifications endorse that astonishing endorsemens of Mathew Arnold's which gives the arrentest poser of modern times credit for "aincerity." one with an carend an education will condone his hideous formal lapses and slovenliness, no nne will deep the strangs vain of volgarity which alloys his work as well as his life. It may still be the smusement of some to weigh him against other considersble poets like Wordsworth, whose hismishes are different from his; it will never again, with critics who ere not crotcheteers, be possible to compare him to much less to put him above, poets like Shelley .- Saturday Review.

The Story-bock in History grows more and more common. Baldwin's "Fifty famous people" are which will have far reaching consequences is that which demands the abolition of the rules restricting the number of times a candidate een apply for the University Lyamina tions. We think this resolution does not so far snough Every University neight to provide for the elever studeet and the average one, there pusht then to be two sets of conrece and of regulatines, the former stiff and stringent, the latter to soit the less intellectually ambitious. The pass course should be such that failure ought to he or centional It is absord that a University abould educate any punil and send him out seto the world as a failure. To avoid this not only abould the 'pass' student he allowed to compete for examination and libitum but should be anabled to take his exeminations-Inter mediate and Finel-in easy instalments Be ell means restrict the 'hononra' men to one shot end no more, but the mere 'pass' men coght elso to be helped to wriggle his way out through the door of the 'pass' degree Of course such a 'pase' degree would not ha worth very much, but a pass' BA will enter life with more self respect than a "failed" B A The present B A degree is neither a pass one, being much too difficult for it. por on honoers one, but a bad blend of the two

On the same days as the Trechnopoly sattingsoff he S.I. T. U, was held in the Mrs. A. V. N. College, V. Purgapatam, a Conference of about 200 teachers of the Derry Secondary school in the lat Grade was represented. The large attendance was date to the exthenasm of the teachers in this circle which was fostered by the grant of travelling a likewacce by managers to the teachers who attended the Conference If the S I T II can induce managers to sand tion travelling sllowances to its members, there will be a bumper house whenever it meets The Vizzgapatum Conference was presided over by the Inspector of Schools, 1st Circle, at did not, of course concern itself et ell with educational polities-the sole concern of the S I T U. but considered madern methods of teaching school subjects, no which the let Circle has 'specialized' for the past six years Pepera on the aim and ecope of elementary science number and space work in Elementary Mathematics, geographical control in History, and Drawing as an auxiliary to teaching were read and demonstration classes were held in which the methods advocated were illustrated in practice While acknowledging the great good such Conferences are sure to do, we are of opinion that teachers of such subjects as English, Mathematics, etc., throughout the Presidency abould form societies and discess their methods of work In sech s case, there will be no chance of mon taking part in debates on the hest methods of teaching anhjects which they know noth ng about.

The accessive stages of man's entitation The sgreef steel. have been associated with the material used by his for his tools. The atone age, the brone age, the process age of th

elements are now used. Thus there is ouckel

steel. Nickel steel is twice or three times as hard as welded iron. Nickel alloys are used largely for ship-building, electric appliances and valves. Chromium etecl. Jungsten steel. and molybdennm steel resist the action of acids five times more strongly than unalluyed irou plates. These steels tempered by a special process are now used for all kinds of tools. The most recently discovered tool steel is vanadinm steel, but it has not come into common use, on account of the cost of vanadiam. Krapp has very recently patented an alloy that is so hard and infusible that in future "the scientific safe-burglar will exercise hie noble art in vain." Manganese steel is used for grinding operations because of its hardness, but it is not malleable, though it can be bent in the cold state and is thus very safe against hreaking. Lastly there is the silicon steel which stands high strein and is used for dynamos, alternate current motors, and transformers.

Now that the S. S. L. C. scheme has popularized "practical Laboratory work" by papils, it is work in schools. worth while to consider the aim and method of school work in science. An American schoolmaster, writing in the School Science and Mathematics, save :-Laboratory work should be made the centre and heart of all high school science teaching. There the pupil makes his study of things, exercises himself in intelligent observation. and seeke to understand what is noted and interpret his observations. All lesson preparation of whatever nature should be done under supervision, and at a time when and in theroom where, apparatus and reference books as well as the belp of the instructor are at hand. The experimental work shand be

aupplemented by class-work. The teaching procedure should consist of three parts: (1) a series of laboratory experiments and exercises preparatory to the teaching of the encoueding nlass period. The laboratory papers of all pupils are to be handed in ut the close of this work for review ao far as shall be poseible : (2) in connection with a class review and discussion next day of these laboratory papers, now again in the bands of the pupils, such teaching, illustration and applications as the teacher can give, guided and assisted by a carefully prepared outline. Here it is that the subject should be developed to meet the several abilities of those under instruction. but as class work rather than individual instruction. Text assignments for the following day are to be made: (3) a thorough quiz upon text matter and outline topics not previously covered in the teaching period, thus making complete the discussion of avery topic in tern. As each larger division is completed, problems, quantitative experiments and exercises as applications of the teaching done. These are to he followed by an examination upon the division of the work covered.

The Royal Commission appointed to consider the question of the Loadou reform of the London University University has published Beform. au elaborato report. Ono important point raised by the Royal Commission is of epecial interest to us. It deals with the constitution of the University. The Commissioners propose that the appreme legislative body should be a court of about 200 persons representing all interests connected with the University. This court will correspond to our (Madras) Senate, The. executive powers will be exercised by a small Senate (our Syndicate) consisting of 15 members. So far everything is like nur own organization in Madras. Now comes the novelty The educational work of the University will be in the handa of the Faculties which will consut wholly or mainly of teachers These bodies will determine thu condition for the award of degrees and diplomas, the courses of study and the conduct of the examinations, but they will not issue syllabuses, for this is a matter for the professor, in consolitation with his col leagues to the same branch of learning The proposals of the Royal Commission in this respect are utterly different from what phtains in Madras Here too, faculties exist, hot their only function is to sleet a Chairman once a year and the Chairman exercises bot one foothoo-that of conscoting to be elected. We will not call the Facoltice a farce, for farces serve some porpose in his they keep you amosed and a Madras University Facolty serves no purpose In Madras the Senate and Syndicate have robbed the Faculties of their legitimate functions. The Senate heing a composite body has no business to deal with the course of studies to be included in the Arts or Laws or Madicine or Engineering , this is specially the work of each separate Faculties. If this were realized, the recent exhibition would have been impossible-that of fifteen Fellows-one educationist and the rest Value and othersattempting to ruin the organization of our colleges professing thereby to stop the killing of the vernscelars and stomping the country and asking the Government to cancel the decision supported by a body, three times their number Will any Fellow propose that the Faculties should be invested with definite

control of University atudies? Or if we are so destrued as to be old fashioned in our arrangements as to leave all questions to be decided by the haphazard decision of such a mixed body as the Senate, why not abolish the Faculties?

The Headmaster of Eton writes on this most difficult and important subject in the Educational The extral Times for April, and we relet

instruction of achool children

to the article in view of the fact that opinious dangerous to society held on this subject by promicent Theorephists recently became the subject of discussions in Madras Civil and Criminal Courts. Luckily very few schoolmasters in South India are Theosophists , hence what the Hoo and Rev Edward Lyttleton, D D, Headmaster of Eton College, wants schoolmasters to do will be practicable here, and that is that the school teacher, of course, where possible to conjunction with the parent to explain to the fenction of reproduction, child ren and on the one hand to associate it with the reverence that is naturally due to parents and on the other hand to treat it in the severely scientifin apirit with which sexual reproduction in plants is treate d. The main facts of sexual hygiene have to be taught to children and they must be drained " to turn with leathing from any carriestore of the facts and it must be remembered that all impure task is of the nature of a carr cature There is something often naturally attractive about a caricature, and so the personal affections and the cense of mystery with which a child thinks about his nwn life must be enlisted, if the truth is to be received with awe and the travesty of the question from the plane of emotion to that of reason. He rightly complained that in the muority of fifteen who walkantly fought for the compaliory "rernaculars," "there were some whose attitude towards the vernaculars.....leaves much to be desired, if it does not actually convict them of consistent inconsistency." He regards it "a mistakeo policy to agitate for a recenting of the whole scheme of University descation, simply bescheme of University descation, simply be-

cause in the coutro it is difficult for students

to secure the full privileges to which they are

outitled under existing regulations," and that

the debate of this question in the Sepate

"could hardly be described as ac exhibition

azorted his hearers, vainly as we find from

the resolutions of the Conference to remove

tions have given a great etimoles to the production of books in modern versacular proces by mee who have received University education—a thing which half a century of the old Regulations failed to produce. The minority of fifteen Fellows want to open all this and put back the heads of the cleck! They call this the econoragement of the versaculars to hoos! Mr. Gardiner has thirst great pains and marshalled many faction great pains and marshalled many faction are arguments to prove his case and if people still continue to missochersteed the question, it will be because they do not wont to understand it.

supporters of the proposal suffer, in our

opicion, from an atter juability to appreciate

the real question at issue. The new Regula-

SIR A. SASHIAH SASTRY, K.G.S.I., An Indian Statesman—a Biographical Sketch

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The Educational Review

A Monthly Record for India

JOL. XIX

IUNE 1913

No 6

All literary contributions books for recesses, seeks poper or wagonizes sunt in schoolses, fig. 1,000 the addressed to the Editor, No. 4 Month Read, Madras Articles and communctions unlessed for publication in the accessing sense should as for an possible, reach the Editor on Later than the 20th of the south. The Editor schools on tributions on an absorbed of deciment interest. Changes about accompany the 20 mars. The Rather on the notice of the 20th of the

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The Publishers request that Subscribers to the Educational Raview who do not receive the Raview regularly well kindly bring the fact to their notice immediately

SUPERVISORS OF ELEMENTARY SCHOOLS

NO make a body of workers think much about their work is always a consummation devontly to be wished, for thought breeds concern, and the right kind of concern develops into culture. Here in India the influence brought to bear un the members of the Subordinete Educational Department is in some respects of the wrong kind the methods of work appear to be essentially deductive and not inductive enburdinates bave too many schemes to carry unt and too few to belp in initiating Perhaps this accounts for that lack of "specialists" which one notices in the Department, and gives column to the accusation that the Department's methods are amateurish

Improvement must, of course, come from within, it cannot be thrust down with official force through the official chancel Mee of light and leading, travelled and cultured men. may meet at the official board, consult the practice of other nations, and drew up a scheme of studies which breathes modernity, but they can acercely guerantee more then that it will command respect Of a truth the low-perd official will receive it with due deference and use it with blind feith, but will be necessarily understand it 9 Experience would seem to say, "No" And why? Is it not because he feels he dare not criticise? Commenting on the work of his Supervisors, & certain Assistant Inspector of Schools writes "The Supervisor more often then not assumes the carping attitude to leave himself a way of escape from his enemies, for constructive criticism is his weak point, he deals very largely in generalities, and bandies educational clap trap, intellectual mertia is with him an pheesenn, if thought is proffered, it is the undigested thought of others, practical schemes be rarely thinks of"

If this be so, I am sure it is because the whole influence brought to bear on the Supervisor is stupefying in its effect. He is not asked to think, to be original, he is asked to preach the doctrine of others, whether it appeals to him or not

How important a role is the Supervisor's? To put it briefly, his duty it is, as I take it, to see that education does not tend to domineer, hot dominates the people to use the valuable distinction of an American writer For who is it who knows the sentiment of the people best -who is it who is most in touch with the spirit of the age, or has the best chance of sounding it? Is it not the Supervisor, who spends the major portion of his time with the people ! To thrust doctrine down from above instead of leaving a way open for it to evolve from below is to adopt a course of action which may make educational activity a force mendiously apart from the people tha genius of the people, that etheresi spirit so bard to get in communication with, may hang its braised head, sod thiogs may he done over it Why is not the experience of Supervisors indented on more !-why should their function be only that of carrying oot the instructions given by experior officers, and not also that of soggestion new lines of action and changes in policy? Of course their suggestions need be nothing more than suggestions, given as soch; but what I think is necessary is that those soggestions should receive the attention they deserve from officers higher ep 10 the service At present the Supervisor is far too timid a being to think not problems for himself, and needs to feel that thought and criticism ere expected of him, and that official schemes of work are not to be taken as immutable documents, or that the detection of flaws in them implies disrespect for the authorities. He should feel that he is entitled to hold the opinions he does

To popularise Primary education is to make it dominate the people, end to achieve this end we need a hand of workers who are convinced of what they preach, and to whom

each word they utter has a very definite meaning To say that our Sopervisors are all incompetent men, or to iosinoate it, is to make a statement which is hard of belief; and to decy that there is a place on which they might do their reasoning is to fly in the face of psychology The fact is that their work needs to be better defined for them, and the kind of reasoning expected of them indi It is surely a pity to let their experi eoce lose steelf in the wiles and wastes of their perfunctorily-written diary, which is lodged to the Suh Assistant Inspector's Office week by week, tostead of sta being served up su cuch a form that it may be available for purposes of illustration to higher officers. 'Theses in the process of maenfacture' might perhaps describe these written opinies of Supervisors, the work of co-ordinating and editing the material resting with the Assest ant luspector So might we bope to fied epring up a hody of literators as able in its own line as that issued by the Eeglish Board of Education, dealing directly with problems alive with interest in a practical, business like manner, sod so might the reproach of amateurishuess vanish from the Department So also might the people join hands with the Department, and work for the advancement not of "modero" edocation, but of Indian education roo on intelligent judigenous lines, and meeting the actual useds of the people Courage is needed—courage to face facts and to admit that the present methods of work of the Department are rather too rigid, and in a way tend to stiffe thought rather than en courage st-coorage to hansh- that sollen pessimism which tacitly seems to assume that there can no good come oot of whatever is LDWARD HENSY ANDERSON indistenous

THE MADRAS UNIVERSITY AND THE INDIAN LANGUAGES

IN the Merch number of the Educational Review "A Retired and Esteomed Educationist" concludes the series of articles upon this important topic, and gives for the benefit of his readers a summary of 1 is observations, as below.

(i) The neglect of variancilars in the Presidency is due not to their exclusion from the compileory courses of the University, but to their exclusion from the School Final Course

(ii) The agriation for the reinstatement of the vertacolars is due "to the instruct should preservation of the Pandis, the edifishness of the Vertacolar Examiners and the pseudo patrotism of the gnevance monger. It is phase of the reactionary spirit osteonish in the interest of Hindu religion and traditions engineered by men who have never themsolves cared to get a first hand knowledgo of the vernacular literature"

(iii) The resulteduction of the versaculars "an calculated to outrage the feelings of the Minhammedans and Indian Christianes" anther young boys will be compelled to unbibe a religion and traditione so apposed to their new.

(iv) The ancient verticellar literature has no colling-value and will fester casts excluciveness and superstition thereby preventing a real union of the Indian people

(v) Its etndy bampers the grawth of a bealthy modern literature in the vernaculars, and the epread of modern ideas from the admanded to the masses

The first of this formidable array of reasons admits the neglect of these Indian

language but ascribes the neglect to the School Final Course. This position assumes that the amount of the vernacular thet a stadent can learn in his school course is quite enungh as an equipment for I for The validity in this assumption is open to grave doubt

As regards the second argument it may be and at once that the l'audit might as well be left alma new that those mora competent then our ceteemed' but anonymous retired educationist have begon to think better of him Besides he is not on the Senate and has nowhere above himself in evidence in this connection Greater recognition and more edequate teaching of these languages do not necessarily mean that the Pundit ebould teach these, it is open to the genn me patrintism of nor esteemed educationist to du the work if he can, as perhaps we are warrented in assuming All else that the esteemed oducationist thought it worth his while to put in writing in this connection discounts a great deal the esteem one would fam give him for the time and trouble hu bestowed upon this subject it would be safer to assume other people as booset as himself, however misgaided their notions may be

Argument three deserves as little oredit On the same lines of reasoning Greek and Latin ehmild be forthwith sholished from Laropean education altogether. It is however entificatory to have the feeling that such an absard notion is not likely to be entertained for a moment, at any rate not on the grounds addinced.

In regard to the next reason against the introduction of these languages it will take a good deel of demonstration to prove the absonce of culture-value If what the esteemed educationist after in support of his position are thu only erguments un which he hasee his contention no non need feel that, any desage has been dann to the ather side, for the simple reason that the knumledge Tamil literature displayed therein is ameething actoundingly poor. The Persain absordities held up to view are absurdities that are the common property of all early literatures to a greet extent. Let that pass.

That the etndy of ancient literatures hampers the growth of a healthy modern literature and the apread of modern ideas does but little credit to the experience of the retired educationist. If he will hat teke a little trouble and go through some of the modern writers of Tamil be will discover vary soon that those that can write the aimplest Tamil are those that have considerabla acquaintance with the older literature in the language. It is generally those that are anxious to exhibit their belf-learned skill that parade their little knowledge and cover their ignorance under the high anunding name modern as if modern Temil is something quitn distinct from classical. This cannot but be regarded as an attempt to set up a false alarm that religion is in danger. that real culture is hampered and that it is forcing Hindnism dawn nawilling threats. These are arguments, theay the least, of interested people and can be applied in their entirety to a large part of the English literature we are asked to read in schools. The ubjection will apply in full furce to the study nf Milton un the nne eidn, Mill and writers nf that class un the other. Yet no one Hinde ne Muhammadau ever throught of raising the question so far. It unly demonstrates how rapidly wn are casting off our old ways of

thinking and getting to think in quite a new atyle, and how the University itself is moving with the current thought of the enlightened.

It is refreshing, however, to pass on to the presentation of the problem by the Rev. Mr. Gardiner of Trichinapoly. With much of what he says un une need quarrel. It may be said at the nateet, hawever, that there is considerable haziness in respect of what thees in favour of the "Vernaculars" nrgs si necessary, and it will conduce to clearness to state the case clearly and somewhat more fully than has been done en far. That those responsible for the drafting of the oew regulations had neglected to provide for the vernaculars is admitted on all hands to be a blunder and the antion of the Government is introducing these much abused languages on the curricula ie so far generally approved The same Government also stated that what could then be done was but an inadequate anbatituta for what ought to have been prowided for la the regulations. . If the Government is quoted for nne part their opinion must be allowed in have some weight in the nther as wall. All the claptrap about religinn and nutrage to centiment is quite out of There are somn gennine Pandis among come of the fanatical classes of Moham. madana; and they have eo far not complained. The University is concerned with problems nt education, and should have nothing what ever to du with the troubles of the social reformer and his friends who have their out particular programme, nut to say hobby-Leaving these aside then, the question as it is nuderstood by those in favour of a better position for the verneculars is this :

Is the present position of the vernacular in the University scheme of studies such as to ensure such knowledge of the vernacular in the graduate as to make him do his duty to his countrymen by diffusing the light of leerning emong his less fortunete countrymen through the medium of the lenguages of the country rather then those of the learned? It must be clearly understood that vernaculars' throughout the discussion is taken to include the classical languages such as Sane knit, Persien, &c , as en acquaintence of these languages makes a knowledge with the verneculers casy It appeared to Govern ment in 1906 that if those who have secured a University education are to do the best for the country with the education they have received, it is imperetive that they should preserve a sound knowledge of the verna unlars" Those in favour of the languages of the country in the Senate and elsewhere ask for nothing more than the carrying out of this principle to its logical conclusion

It may, however, he stated et the ontset that these languages do occupy a hetter posttion in regerd to the specialised courses than they did before Those of them that take these either singly or in combination in Group III heve a course that would enable them to specialise, and of this the so-called agitators ' have nothing to say. But it must be remarked in passing that the more important Colleges have quite failed in their duty by not making adequate provision for their atudy in spite of the professions that some of their staff heve been meking as to the charactor of the courses and the quality of the teaching I am not overstating the case at all as the Roy Mr Gardiner has put thn metter very much more forcibly in his address to the South India Teachers' Union. Leaving this indifference of the Madras Colleges aside as having nothing whatever to do with the University Regulations as they are, there call remains the question which is not be main point et issue. It is matter for regret that on this particular we have to join issue with Rev Mr Gardiner.

Leeying the specialising groups end the Hononra Conraca apart, it is pertinent to ask the question whether the regulations as they stand et present de provide for a sufficient ecquaintance with the lenguages of the country in the average graduate. It must be remembered that we are concerned with the Pass Courses only in regard to this question It must elso be remembered that the Pass Conrae is intended to be a wider conrae then the Honoure Courses, end seems primarily meent for the official and the husiness man In such a course as this de the vernaculars occupy the position that they should? Classi cal languages are allowed to be substituted for the vernaculars only because it is ordina rily the case that one who has anflicient acqueintance with these languages easily sequires the necessary command of the vernacolars Taking it then that this substitution is only a apecial concession it will not be amiss to areak of vernaculars alone for simplicity

The Regulations of 1806 es approved by Government, provided that the Intermediate students should bring up compolsorilys versuccilar and indergo an examination to vernacular composition as a test of his capacity in this mather tougne. It must, however, he boren in mind that this was done with the obvious intention of not having to revise the endy a somewhat madequake recompense for a bad neglect on the part of the framers of the regulations. We have no particular anime against these latter as even the Rev. Mr. Gerdiner would seem to imply; it would he reasonable to note, however, that these gaudicused did make a misteke in regard in this particular analyset, and that the shert-comings of the Pundit or the imadequacy of the old regulations is no justification for the acrore. As it is, veracecular composition is a complicary course (taking in it the translation from a classical language) in the Intermediate. The compulerry principle is not therefore sought to be newly introduced. Twe questions anternally arise out of this position—

- (i) Is this compulsory composition adequate for the purpose for which it was introduced? If not, can it he mended without altering the regulations too much?
- (ii) Would it he desirable to carry this into the B. A. Pass Course as well?

In regard to question (i) two facts stand ont clear. First the number of bonrs allotted to the vernaculare has been reduced to two, and the teaching, such as it is, is confined to composition as far as can be made out. Secondly, in apitu of all that has been said about the Pundit and his weeful want of capacity it is the Pandit that is entrusted with thu work in several Colleges. It was abundantly . clear from the information collected by the Committee and the discussions in the Senate itself that there has, so far, been ne attempt either on the part of the University itself or so the part of the colleges to improve the quality of the jostruction imparted. What is wanted, therefore, is a certain amount of regular teaching of the language itself on the lines of the teaching of the mother-tongun in Prance with the supplement of special classes in composition. This need not be interpret-

ed as anything very revolutionery, end ench a course can easily be arrenged for without meddling with any vital port of the regulations and without the least dutriment to the principles underlying the regulations as they are To put it more clearly if the University prescribe a course as in the Non-deteiled study section of the English cenrse end let the Collegea be asked to make proper provision for the teaching of the anbject on more approved lines, bettar results will follow and no vielence would heve been done to the tegulations so for as the Intermediate Course is concerned. There will be some difficulty in arranging the time-table and in apportioning the time among the several subjects of the course, but this is not in the least likely to be insurmountable There is of course the consideration that those that go to the Colleges enter their course there with a certain equipment in these languages, and this is matter for the School Final authorities. Education in this particular as in other particulars has suffered for want of a co-ordinating authority and the need for each is far greater in this country than elsewhere,

Coming to the next point, namely the desirability of carrying this compileory course into the B. A. Pase Course, it would seem very desirable to do so for the following reasons. The Pass B. A. is not meant to be a pecialist. This latter has been studiedly released from the harden slike of these second languages as of Eoglish. If the nineteenth tentury English is enough for him perhaps the latter mediatevernacular will equality affice. The Tass B. A. stands entirely on a different footing. If he is really to he all that he is meant to be, it is reasonable for expect him to possess a knowledge of the vernet.

culars at least es good as that he has in English To make provision in the course for this study with the other sphiects left as they are would he a matter of considerable difficulty though a way out of it would seem quite possible with a little trouble to the Boards concerned For a Pass man, not a specialist, the course laid down in English seems much too elaborate. It is hardly necessary to go unto the full details of it here , but it would readily suggest itself to the English Board if they could only be paragaded to feel that some three to four hours a week will be required for the vernsculars The aptnal details of the course can be lla lo read parques y less tol bernara reasonable criticism as to archaisme. Punditry end all else of that ilk The position of the vernaculars will not be improved by raising the percentage for e Pass or by the sholition of the classical languages as an alternative The vernaculars fared badly under the old regulations by had courses, had teaching to e certain extent, end by an arrangement of examinations which invited neglect on the part of the student. The correct principle has been recognized in the new regulations but has not been carried far enough to ensure the results which are expected The colleges have primarily to de this hat surely the University ought to give them the lead

This is the position of those that are dissatisfied with the position of the Indian languages in the Madras University which by the way occupies a unique position in regard to these languages chiefly owing to the character of these languages themselves. It was open to the Committee opensity approximafor the purpose to have made the requisite research and made more satisfactory recommendations on the whole question

S Keishnaswami Aitangar

SCHOOL MARKS OF THE S S L O

HOLDER AT the recent Educational Conference held under the presidency of the Inspector of Schools, First Circle, at Vizagapatam, on the 13th, 14th and 15th of May, the problem of the school marks of the S S L C holder was one of the sphiects brought up for discussion in a very incidental manner Mr Ivenour. P T . the Principal of Mrs A V N College. ross with the permission of the Inspector of Schools to propose a resolution on this question The educational world of this Presidency are aware of the circular letter issued by the Syndicate of the Madres University to all the Principals of the Collagas, on the principles to he adopted to selecting and admitting S S. L C holders into the collegiato course of studies In that famous orcular the Madras University Syndicate enumerated the principle of igooring the school record of the certificate and of busing the selection on the marks awarded at the public examination The Principals of the affiliated Colleges were even threatsned that any legisney shown in the selection might be considered to be a aufficient cause to consider why the affiliation of the college should not be cancelled Indeed the auggestions of the Syndicate fixed 40 %. for English and a mark above the Presidency average for the optional subjects. In a word a very enthusiastic attempt was made to reducing the S S L, C to the Matriculation Certificate, for the University would grant anch a Matriculation Cartificate to all candidates thus admitted ! It should be mentioned

consideration more to disquelify the student f Once more the evils of the rigid external exemination were re-introduced with aR the vigour they had enjoyed in the hands of the University for a long time.

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These auggestions of the Syndicate that came with the anthority of rules were ignored end laughed at in some hold querters. In some cases the Principels resented that their discretionary powers should be so baressed and questioned by the fossil Syndicate. But there were some Principals who, having been feeling the absence of such stareotyped ways of management for their guidance, welcomed them heartily and adopted them scrapplopsly. Last year in many colleges were witnessed the horrors of these enggestions. Students that were rejected by the Principal of their college could get admittance in the colleges of the neighbourhood. High school teachers hegan to put to themselves seriously the question why thay should he conscientious in their marking. The spirit of the S. S. L. C. scheme was lost in two ways therefore. When these evils and horrors were discussed last year at the Teachers' Conference a resolution was passed. Mr. Iyengar brought up the same resolution this year also for acceptance by the Conference.

While last year the resolution was passed nusnimonsly, this year the resolution was objected to by Mr. C. Govinda Rao, BA, LT., Handmester, Kota-Ramschandrapur High School, Godaveri, whn had last year apported it. He said that he had subsequently changed his position and that he would strongly commend the action of the Syndicate. On principle he would denounce the action of

that the school marks were recommended for action of the Syndicate should be meintained. He mesnt that in the absence of such measures adopted by the Syndicate the unattached high schools (i.e., high schools nuattached to any college) had to sustain a great rick. The Principals of colleges would place different stendards of marks in admitting atadents reading in their own high schools and those of other high schools especially those in the neighbourhood. Such procedure on the part of the Principals lad to the impoverishment of the unattached high schools. That such different treatment might be made impossible, the Syndicate was led to lay down those schitrary rules; and he would welcome them therefore as showers of blessings for such high schools.

As Mr. C. Govinda Rao hesitated to say so much and so plainly when he objected to the proposition, he could not have one who seconded his objection. The resolution passed with one voice of dissent ran as follows :- That this Conference requests the S. S. L. C. Board to take such steps as to ensure the recognition of the school marks obtained by a S. S. L. C. holder whn seeks admission either to the collegiste course or to the Government service.

The resolution is indeed very happy. The S. S. L. C. is in its infant stage and angurs a bright future, should it he worked on proper lines. The rules of the University in redneing the certificates to a machanical standard is really deplorable. Hat yet the voice of the objector should be heard. As a headmaster of an anattached high school situated in the neighbourhood of a number of attached and unattached high achools competing with one another for finances, he the Syndicate but as a practical measure the has felt thu wrongs done to his classes and he has therefore objected. But yet thu haressing rules of the Syndicate to ignore school marks cannot be accepted.

I therefore try to propose another ecbeme for acceptance A Board of all membersthree Inspectors of Schools and three Princip pals of private colleges-may he constituted to matriculate every year the S.S L C bolders of all achools on the strength of the school marks valued in relation to the school average and the Presidency average and of the public examination marks and of any specific recommendations made by the headmaster of the school to which a candidate belongs As this Board cannot have any personal interests, their judgment should be final If a single Board for the whole Presidency he felt to be unwieldy, a small Board for each circle might be formed for this purpose The Board may consist of the Inspector of Schools who knows shout the efficiency and bonesty of the marks of each school in his circle and all the Principals of the colleges in his circle iThe Inspector will receive the S S L. C hooks direct from the Board and he, in consoltation with the Procupals, may be empowered to pronounce who are eligible for being matriculated Such an arrangement. I hope, will suit the position ander consideration

P JACANYADEAGWAMI

GROWTH OF VERNACULAR LITERATURE IN THE MADRAS PRESIDENCY

IN the issue of the Educational Review for August 1912, there appeared an article from the pen of an emment educations to the onlipect of the neglect of vernaculars in the schools and colleges of the Madras President

dency In the course of the article the writer attempted a diagnosis of the probable causes that had contributed to this perfect and to arrive at these he hed recourse to a comparison of the conditions prevailing in Bombay, Bengal and Mysore in this respect He stated that in the Bombay University the vernaculars found no place at all in the University conrses This is not a correct atatement of fact for the veruscolars can be taken no for the M A degree and some of the emment public men of this Presidency are Marathi or Gujarati M A's But let this be The writer continued that not mithatend. ing this the vernacular literature was in a flourishing condition in this Presidency, Turning to Mysore, where, so far as the University examinations were concerned, the conditions were identical with those in Madras, the Kanarese literature was observed to be progressing by leaps and hounds was inther remarked that if the Bengali literature had been very widely cultivated, it was not doe to the fact that it had been a compulsory subject in the University examinations, for-it was around-if it were so the vermenlar literature should have been in an equalty, if not more, flourishing condition in the Madras Presidency also, where verusculars were being studied compulsorily till very recently. From these circumstances the writer concluded, and in our opinion rightly, that the prescription of verusculars as compnisory apprects to be tanght in schools and colleges had done nothing in the past and would do nothing in the future to stimulate the production of works in these languages and that the causes for this want of responerveness on the part of the Madrasis must be songly for elsewhere than in the attitude of the Madras University towards the local

vortacollars. Finally the writer gave his opinion—and here we must remerk that it is not a well-considered opinion as we shall show prescully—that the causes of this neglect are to be found in the character of the people of Madras themselves.

'A peculiar diagnosis' one is tempted to exclein, a diagnosis that sammarily dames a whole people numbering from twenty to twenty-five millions at least. However in the further exposition of this new theory that is so startlingly put forward the writer confined himself to a comparison of the supposed character of the people of Madras with the supposed character of the people of Bombay and completely ignored the examples of the other two provinces, viz. Mysore and Bangal. which had been brought in a little before along with Bombay for the purposes of this comparison. In the omission due to the fact that the instances of Mysore and Bangal do not land themselves so conveniently for the building up of the writer's nawly-discovered theory? For apparently the character of the Mysoresu cannot be so very different from that of his Madrasi neighbour, and as for Bengal, it need only he mactioned that the Bengalia were known to be the most subservisat of all Indians in servile imitation of everything English including the use of the English lenguage, till only the other day whee the partition set them by the ears and drave them into the other extreme of bitter hatred.

With the greatest respect to the emiseral writer of the article, it must be remerked that the theory propounded is natenable without further and more convincing arguments. From our experience it appears to as that the people of Madrea are neither the ashweritent hords they are represented to be

nor are the people of Bombay the patriotic and self-respecting paragons idealized in the meatel regions of the fauciful writer. So for as the matter is capable of generalization at all the main causes of the neglect of versaculars in Madras are more probably somewhat as follow.

(1) The modern Western civilization that has been brought into India by the British rulers introduced the Indians in the past and is introducing them at present to a large number of abstract ideas, modes of expression and even concrete articles of daily use for which there were and are no exact equivalents; in the vernacolars. People were thus led to coin words and expressions for translating, these ideas into their daily language. In: the Bombsy Presidency the new requirementa were coined from the Sanskrit languaaga as the classical mother of all the modern Northern languages. In Madras, on the other hand, Tamil, the modern representative of. the original Dravidian tongue now lost, claimed a pride in its absolute purity from contact with the Aryan Sanskrit and the. consequent contamination, and Tamil authors, even auterior to the advant of the British culture had already religiously forhorne from seeking the help of the Senskrit language in composing their works. The effect of this. spirit of exclusion was that the knowledge of the Sanskrit language was conficed to an extremely limited class of theologiens only and the ordinary Madresi naver acquired the habit of expressing higher ideas and sentimente in a dignified classical garb. Thus, when as stated above the English culture was disseminated through the langth and breedth of the Madras Presidency through the medium of the English language taught in the high schools and colleges, and the ques-

tion of assimilating this culture naturally arose, the Medraes found that he had neither the habit nor the necessary material ready at hand for forging the new vehicles of ex pression for the inter communication of this only a As is the case everywhere in the world the daily spuken vernacular of the people was of no avail in this respect for the ideas and centiments which were to be given expression to wars all strange to that vernacular In circumstances such as these every modern anoken language has to fall back upon the root words of a dasd language to coin the necessary expressions. In Lurope these languages are of course Latin and In India they are Sanskrit and Greek Persian and to a very elight extent Arabio But none of these languages were in the good graces of the Tamil scholar, nor were they studied by any large number of Madraess Notwithstanding these drawbacks the smirit of the kinship of religion would have made the Tamilien turn for help to Sauskrit after all, as it was the language in which all the sacred Hindu literature had been written But here came in a difficulty arising from the proud spirit of exclusion of his forhears For this very spirit had been already taken advantage of by the Britishers, of course with the concurrence of the people themselves, to ullow the substitution of verusculars as second languages in place of the classical Sanskrit in the high schools, and the Madres University had followed suit. The Sanate of that hody argued that as Sanskrit was a foreigner in Sonthern India and considered as such by the people, the college students could not he encouraged to take it up by a rale esmilar to that obtaining in the other Indian The local verusculars were nocordingly freely permitted to be taken up

as second languages. This attitude of the University further curtailed the number of students who had a knowledge of Sanskrit The results were disastrous to a surprising degree For when the new ideas were to be conveyed to the vulgar multitude, the English educated Madrasi could not procesate a new Ternil word hased on a Sanskert root on account of his ignorance of that langua-On the other hand the English word start could not be so naturalised for after all it was far more foreign to the vernacular than the Arvan Sanskrit word would have been A us media was found out of the difficulty The English word without any process of transformation was bodily accepted and freely used in the vernacular. This process was attended with the least possible difficulty for English was the compulsorily daily taught enblect to the students and the daily medium used by the official classes in the office hours. and was moreover the very language which had acquainted the educated classes with the new idea. Is it corprising then that this wholesale use of Loglish words in vernacular epeech became a regular habit with the educated classes and through them with the masses? One may be permitted to say that it would be surprising if it did not By this process however the vernacular of the Luglish educated classes deviated further and further from its old pristing purity till it has now become a mere Anglo Vernacular mixture hetraying at every step the exigencies under which it began to gain wider and wider curreacy It thus appears to us that the slow growth of the vernaculars in the Madras Pres dency is due largely to the neglect of the study of the Sanskrit language in schools and colleges

That this is the proximate cause will be

borne out by an examination of the kind and quality of the modern Marathi and Gojaratl literatures that have grown in this l'residency. Firstly these literatures are confined to prose works, the amount of poetry put forth being altogether insignificant. Secondly, they are extremely 'modern ' in their ideas. Neither of these characteristics is surprising for the writers are mostly either men trained in the vernacular achools of the Presidency mentioned below or graduates of the Bombay University who had taken up the English and Sanakrit languages as their optional appliects for the B. A. degree, Thirdly a large number of the works consists of either travelations or adaptations of the various standard English and a few Prench works, the major portion consisting of adaptations of works of romentic fiction. For instance Scott's Taliamen has been adepted for the bierathi stage under the name of ' Prema-dhwais' or ' the banner of love.' Mrs. Harry Wood's popular novel ' East Lyana' has been adapted jote an excellent Marethi Kadambari (covel) entitled ! Manik Bog.' Shokespears has appeared in Marathi prose, and some of his plays, especially 'Hamlet' and 'Othello' bave been adapted for the stage se well. We must at the same time add that in respect of romance, there are some very good original works also, as for osemple. ' Ajım Tārā url or Ajiokya Tārā, ' a thrilling story of the capture of the fort of Satara by the Mahrettan, a masterpiece of its kind by the most famous living Marathi author Mr. Hari Narayan Apte, who is invariably an examiner in Marsthi for the M.A. degree examination of the Bombay Univereity.

Listly the most importent characteristic of this literature with which we are concerned bere is that the style in which all these works are written is an extremely dignified classical "backboned" form of Marathi Itemiog will Sanarrit words and compounds. As examples of some of the very ordinary forms met with It may be noted that "literator" is translated into "Vacgmaya," stage" into "Idanyahbeni" "high ideals" into Udatu ka'paza," modero" into "dabunia," mestorn 'into "platchi mittys, "cilitor 'into sampidaka, and istly "self-grorement" into "aranjus."

Tureing now to Bengel we confess that we have no first-hand knowledge of the Bengali iterature but we are assured from several quarters that whetever has been said above regarding the Marathi and Onjamil literatures applies even more forcibly in the case of the Bengeli literature. This is not sumprising; for it seems that many of the modern writers in Bengeli are the alumni of the Sendrit College of Calentia, which the Hond'hlo Sir Asutosh Materie, the learned Vice-Chascellor of the Calentia University anguested only the other day as the brilliant nucleus of an Oriental University.

Marathi, Gujerati and Beogali are Aryan languages and some of our readers may argee that this wholesale horrowing of Sauskrit words and compounds though quite compatible with these Prakrit lauguages is probably out of place in a Dravidian tongue. This is essentially a question of fact and to some extent of habit. We have a complete knowtedge of one Dravidian language, vis, Kanarese and co far as that language is concerned we can assure our readers that auch borrowing is not at all incompatible with the language. Neither does it mar its besuty. On she other hand it has added in the past very considerably to eplendonr of language and the post Lakshmisha (Circa 1590 A.D.) the author of 'Jamuni Rharata' and the first and foremost of modern Kaparese anthora has freely used a large number of easy Sansket words and compounds The two processes by which Sanekrit words are horrowed in the Kanarese language are (1) the 'tutsama process, se borrowing the word bodily, and (2) the 'tadhhava' process in which the word is changed according to definite rules corre sponding somewhat to Grimm'e and Verner's laws for deriving Angle Saxon words from Low German. So far as we are aware we do not see why similar processes cannot be adopt ed on an extensive scale in the case of Tamil. when they are used in Kanarese, as both Tamil and Kenerese are derived from the same original Dravidian tongue In fect the 'tedbbaya ' process is apparently already in use in Tamil as for example the Sanskrit 'Shri' transformed into the Tamil 'Tirn' In fine we cannot do anything better than exhort the Madrasia to shake off the proud spirit of exclusion which possessed some of their fore fathers and still continues to happt them and to clasp with fervonr the ready helping hand held out by the Sanskrit language with its vast etere honse of root words and derivative Drocesees.

(2) The second cause of the neglect us question was the failure of the Madras Government to provide proper facilities for the higher endy of the vertaculare. We do not say that this attitude was intentional or deliberate on the other hand we are almost quite sure it at it arces from genorance of the true method of encouragement of the vertacular teaching provided in the pablic echools of the Presidency was only up to the upper primary lade, so the fourth terms oular standard. After that stage the verne

cular was relegated to a subordinate position the English longuage taking its place as n medium of instruction It is only in the last few years that provision has been made in some places for the use of vernaculars as media of instruction to a higher stage by the establishment of vernacular middle echools In the Bambay Presidency on the other hand. the resources of the Local Boards supplemented by larger and larger annual grante from Government bave been for several years last past employed in imparting vernacular education to a fairly advanced etage. The vernacular echool course in this Presidency extende over a minimum period of 8 years mernding the infant class and at its completion comee the Vernacular Final Examination corresponding to the School Final Examination of the English Secondary School though some subjects at the letter are omitted from the former The stage reached at this examination in the command of the vernecular 19 fearly high and a candidate 15 generally able with a little experience to contribute a good article to a vernacular paper on any modern literary topic of general interest to the public. We doubt whether the same could be eard of any pupil turned out from any metitation in the Madras Presidency In the case of achool masters, this command of the vernaculars is further improved by the three years' vernacular training college course in which they are also taught the Sanskrit language in order to accustom themselves to the cultivation of a fairly dignified classical style in the vernacular when the nature of the sobject dealt with so demands. In fact some of the schoolmasters who were so trained but have been aubsequently dissatisfied with the conditione of service in the Educational Department are

now editors, anbeditors and assistant editors of veroscoler newspepers or monthly magazines having a feirly wide circulation or in some cases have become their regularly paid correspondents. We donbt whether there is easything parellel to these activities in the Madrus Presidency. We know that a few years ago there was nothing. We donbt whather matters have improved since.

(3) The third probable cause is the want of Government encouragement and anpport to those who heve taken up the advanced etndy of vernsculars and written good works in those languages. In this connection it may be remarked that in this Presidency the cadre of vernacular mesters is divided into grades carrying salaries from Rs. 12 to Rs. 60 per month and regulated by a time scala of promotion. These masters are also eligible for appointment as Assistent Deputy Edncational Inspectors corresponding to the class of Snb-Assistant Inspectors in the Madras Presidency. As regards graduatee it may be etated that the majority of the staff of the -four training colleges at Dharwar, Poons, Ahmedabad and Hyderahad and of the train--ing school at Dhulia consists of graduates whose optional subject for the BA degree · was 'languages' (i.e. English and Sanakrit in this case) and who have cultivated the art . of writing and apeaking in the vernacular. .They are further encouraged to anatained ceffort in the advancement of the vernaculars by certain of their official duties. For instance the Vice-Principals, who are of course members of the divisional veruscular text book committees, are the departmental reporters on all vernacular publications sant-. tioned by Government for one as text-books or as prize or library books in schools and collegea as also on all vernacular publications

anbmitted to Government for patronege. They are three required to he up to date in the knowledge of the development of the vernscular literatures. They generally draw a salary of Rs. 200 per mensem. The Principale of these colleges ere in the Provincial Educational Service and draw Rs. 400 per mensem. Again in each of the foor diviciona the Educational Department publishes a vernacular 'Shala Patru' or journal of education for schools and the editor of this megazine who ie paid a special remuneration for the work is celected invertubly from the etaff of the divisional training college. The encouragement thus given to the cultivation of the verosculars is iovaluable.

In this connection we may mention another circumstance of some importance. It is this that in all the public offices of this Presidency, there are what are called vernacular departments, the clerks in which are vernscular schoolmen baying no knowledge of English These clerks, it is known, make on a respectable body of vernacular newspaper and magazine resders. They are thus a fairly potent factor in the development of vernacular literature. Further there is an acoust Government grant for giving rewards to approved writers in the vernsculars, a committee, viz. the Dakshina Prize Fand Committee, being constituted to judge the award. This in a relio from the times of the Peshwas as the word 'Dakabina' indicates. Government also encourage such works from the ordinary budget grant for the encourage ment of literature. Of the apecial importance given by the Bombay Government to the stady of the vernsculars by the Civilians of this Presidency any body who watched the proceedings of the Decentralization Commission must be well aware, as also of the neglect of the same in Madras We need not add anything

(4) A fourth reason for the neglect of vernaculars, which is closely allied to the first reason we have given above was tha non provision of facilities by the Madras University for the advanced study of Sanskrit The study of Sanskrit us a com pulsory second language is useful so fur as it goes, as for instance in eresting a chentele of cultured readers for auperior vernacular magazines But it eun never produes the same effect as would be produced by tha study of the language as a special subject, which can only be done when it forms part of an optional group Compulsion in the aphere of the intellect can never, it must be remembered, be attended with any conspicuons degree of success It is the love of a subject for its own sake that is capable of working wonders and such love can invers ably he bast undicated only by the choice of the subject when it is one of several optionals Mereover the study of a subject voluntarily (and hence specially) is always attended with greater and morn rapid advance than if it were studied compulsorily Turning to the Madras University, under the old regulations, there was no optional group of laognagea as in the case of Bombay This defeat has however been removed in the new regulations nader which one may take np a combination of say Sanskrit and Tamil or Sanskrit and Kanarese and so on This is nn improvement in the right direction But the facilities thas provided will be of no avail unless the Madras Government gives at least equal opportunities in the public services, especially the educational services, to graduates in these anbiects. We think that each secondary school should be required to have

at least one such graduate on its staff just as it is required to have a mathematice, history our seience graduate. In the case of the imspecting staff and the staff of vernaonlar training colleges a large majority of fatore recruits must belong to this class, and this class only. It is because these principles are followed in this Presidency that the verna-

cular literatures are to a flourabing condition. In concluding the article we may be permitted to hope that the causes set forth in it will be more acceptable to educationists in the Madras Presidency inasunch as we expect that they will be borne out by the actual conditions prevailing in that Presidency, which can be observed in detail only by those who are actually on the spot and are in close touch with the system of vernacular education in force there.

" DABBLER"

THE NELLORE RANGE VACA. TION CLASSES

(BY AN EDUCATIONIST)

/THE Nellore Range Vacation Classes were held on the 29th, 30th and 31st May. 1913. in the Government Training School, Nellore and they were a great specess. About 65 teachers attended the classes Model lessons on different apprects were given on all the important ambjects. An axhibition was also arranged on a small scale and the teachers were shown the different charts, pictures and apparatus brought together for the neession. The aignificance and the educational psefolness of each urticle was axplained Every attempt was made to make the exhibition instructive Every teacher was compelled to take notes for his future guidance The exhibits were arranged

In three different rooms. The geographical pietures lent for the occasion by the V. R. High School enthorities were heaptiful and instructive. 'Volcanic eraption,' 'A Chinese town, 'A Japanese town' end 'New York' were very attractive. The historical pictures were colonied and were in glass frames. The coloured Bacon's charts were much admired. 'The landseer' eeries of natural history plates were also on view. Some drawings of the pupils of the Oleott Free Schools and some exhibits from American Schools obtained for the Nellore Exhibition were also to be seen there. The museum articles of the Manieipal Mphammedan School, Nellore, were much admired by all the visitors. The A. L. Phisiology charts, Philip's Typical object lesson piotures and nietnre map of the world were ulearly explained to the assembled teachers. The anatomical models of the Government Training School were also there. Many of the tesohers copied down the information. contained in the physical geographical charts prepared by Mr. K. Rangaiya of Kovnr. The fibre work from the Board Schools at Kristpapatam and Brahmadevam deserves epecial mention. Different kinds of wood, pressed leaves of different kieds and some good clay models and stone work belonging to Mr. M. Subrahmanyam, e.s., L.T., were also exhibited. The life-histories of the from the bee and the silk-worm belonging to the Manicipal Panchama School were eagerly aought for by the teacher-visitors. Besides the staffed specimene of snakes and birds, there were . living specimens of pigeons, parrots, land and water-tortoises-pet enimsla from the Mnaicipal Mahammadan School. Moral maxima in coloured type on card boards and a chart of good manners prepared for the occasion showed that the subject of moral instruction

was not neglected. Meny stones were there though they required classification. There were also different kinds of shells, The soloured drawings of papils of the A. B. M. High School, Nellore, were excellent and the nail drawings of one of the Elementary sebool teachers were equally good. On and Co.'s practical object lesson cards were also no view as well as Bacon's free arm end ambideatrons drawing cherts and Nature drawing charts by Backie & Sous.

In the evenings M.R. Ry. M. Sphrahmanyam Garn, B.a., L.T., Sab-Assistant Inspector of Schools, Nellore Range, explained in a practical manner the modorn methods of teaching the subjects of the Elementary achool curriculum. To facilitate work he printed at his own cost a synopsis of his anggestions and distributed them gratis among the assembled teachers. On one evening M.R.Ry. M. Rangaawami Iyengar, the Assistant Inspector of Schnols, Nellore District, brought home to the teachers' minds the method of teaching the lesson on 'The Cow' in the first reader. A public meeting was held on the Sist May at 5 p.m. with Rao Bahadur T. Raghaviah Garn, B.A., Collector of Nellore, in the chair. M.R.Ry. R. Subbsrayedn Garn, E.A., B L., delivered an interest--iog lecture on " Moral Training and Elementary School Teachers," and M.R.Ry. G. Yensdi Reddi Gara read an instructive paper on Andbra alababharatam.' Both of them remarked that the readers in use in Elementary echools were not quite good. A few verees composed by one of the teachers were then read in bonour of the Chairman. A few remarks from the chair, the usual votes of thanks and the singing of the National Anthem in Telaga and in English brought the vacation classes to a close.

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Re 1,000

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each

GOVERNMENT COLLEGE OF COMMERCE, BOMBAY

Nu 1579 —The following Press Note No 1578, dated 24th June 1912, is published for general information —

Prass Note

His Excellency the Governor has received the following very generous promises of support to wards the establishment of Government College of Commerce in Bombay —

- (1) Sir Jugmuhaudas Vurjeevandas—Rs 2 25,000 thwards the founding of a professorial chair to hear his name
- (2) The Trustees of the Wedia Charities— Port Trust bonds yielding Rs 4,800 per annum towards the founding of a cherr to bear the name of Mr N M Wadia
 - (3) Sir Chinnbbai Madhavlal-Ra. 1 00 000
 - (4) The Bombay Ghember of Commerce—Re 1.500 per ennnm
 - (5) The Mill numers' Association,
 Bombay.
 - (6) The Indian Merchants' Ghamber and Bureau,
 - Bombay,
 (7) The Bombay Native Piece

XIX

- goods Marchauts' Associatico (8) The Mill owners' Associa
 - B) The Mill owners' Association, Abmedshad

The moome thos provided will amount to about Hz 32 000 per anum, and Gwarmenet are prepared to contribute an anunal great of Re-15,000. The liberal and most gratifying support which the proposed College has thus received will soable it to be sstablished, although additional funds will be required to make the nutitional complete in all respects and in provide scholarships. Details will now be wurked out, and it is hoped that a beguing may be made next year with a ctaff of two professors (one to exist as Principal) and two lectorers. As soon as

the pecsasary arrangements have been mode, an Advisory Board will be formed un whole the contributing hodies will be represented to order that the courses of study may be kept in ful harmony with the practical requirements of commetree and industry. The Governor in Coursell Ireats that the establishment of this locality, the first of the kind in this country, will in time go far to apply the growing useds if special commercial education not only of the Persendence, but of Jodin generally.

By order of His Excellency the Honourable
the Governor in Council,
J. L. RIEU.

Secretary to Government, Educational Dept

As 1404 - The following Press Note No 1393, dated 12th May 1913, is published for general information:

Press Note

In Press Note No. 1878, dated the 24th June 1912, it was announced that Government had received establishment of a Golfege of Gomerce in Bombay and that the details of a scheen would be worked out. Accordingly in Lely 1912, daffitte proposals were made to the Goordement of Judas for the foodation of the spootson of two proposed Golfege and they were saked to obtain the spootson of two professoration of two professoration to be recruited in Empland

2 The Secretary of State has approved the proposals submitted by the Bombay Government as being a preciousl subme well calculated to meet the demand which may be expected to make their fight in India for the services of trained soltarias and achieves more especially in view of the recent legislation controlling L to Assortance Companies and Provident Societies His Lordship has ascordingly approved the proposals generally and has sanctioned that two professorships to be recruited in England

 The teaching staff which it is proposed to engage for the Collego et its commencement is as follows:—

Principal on £900 per enunm or Re. 1,125 per mensem.

Professor on £700 per anonm or Rs. 875 per mensem.

Two lecturers on Re. 300-25-500 per mensem each.

The two professors will be recruised in England for a specific term of service, and the two loctoreships will be held by qualified Indians. The Secretary of Siris has now been requested to select a suitable candidate for the poet of Priceipal who will join his appointment as soon as possible, so that his advice may be obtained in settling important details in connection with the opening of the College. The Lord Sydenham has kindly offered to essist, in England, in the selection of a condidate.

- A. The College will be solirely under Goreramun control, bot, in order that the courses of stord may be kapt to fall hearnon with the practical requirements of commerce and industry, the Governor in Cannell proposes to appoint an Advisory Bord in connection with the institution. This Board will for the present consist of the andermentional thirteen members representing respectively Government, tha private donner, and the commercial bodies which have promised to contribute towards the cost of the College-
 - (1) The Director of Public Instruction, Chairman of the Sparet.
 - (2) The Principal of the College.
 - (3) The second professor of the College.
 - (4) A representative nominated by Sir Jugmohandae Vurjeevandae.
 - (5) A representative nominated by the Trustees of the Wadia Charities.
 - (6) A representative nominated by Sir Chinabhai Madhavlel, Bart, c.r.z.

- (5) & (8) Two representatives nominated by the Bombay Chamber of Com-
- A representative nominated by the Mill-owners' Association, Bombey.
- (10) A representative nominated by the Indian Merchants' Chamber and Bursen.
- (11) A representative nominated by the Bombay Native Piece-goods Merchents' Association.
- (12) A representative nominated by the Mill-owners Association, Absiedabed,
- (13) Sir James Begbie, Secretary and Tressurer of the Bank of Bombay.
- The College will be emiliated to the University of Bombay, which has instituted a new degree of Bachelor of Commerce and framed a scheme of studies in coonexion therewith.
- 6. Is communicating his sanction to its scheme the Secretary of State has stated that he notes with pleasans the litheral sopport which has been promised towards the endowment of the College at Commerce on behalf both of private individuals and of commercial bodies.

By order of His Excellency the Right Honourable the Governor in Council,

J. L. RIEU, Secretary to Government, Educational Dept.

University of Bumbay.

Regulations for the Degree of Bachelor of Commerce.

Bacutton ne Commence.

1. Candidates for the Degree of Bachelorof.
Commerca (B. Com.) must have passed the
Matriculation Examination, and will be required.

Metriculation Examination, and will be require to pass two subsequent Examinations, the first to be called the Intermediate Examination in Commerce, and the second the Examination for the Degree of Bachelor of Commerce.

INTERMODIATE LEAMINATION IN COMMERCE

- 2. The Intermediate Examination in Commerce will be held annually in Bombey in the first week of September.
- 3 No noder graduate will be admitted to this Exemission noless, after obtaining a cartificate from the Principel of six Arte College efficiated to the University, showing that he has eats factorily carried out the work appointed by the University for the first two terms in Arts are slee after passing the Previous Examination of this University or the Intermediate Examination in Arts of any other Indian University, he shall have kept three terms at a College or Institution conquired by the University in Commerce and unless he produces satisfactory testimonials ander form 1
- 4 Candidates must forward an application to the Registrar two weeks before the commence ment of the Examination
- 5 Each candidate must pay to the Regis trar, through the Principal of his College or utberwise, as the Syndicate may direct, a fee of Rs 25
- 6. To pass the Examination the cand date ment abiam (a) 45 per cent of the fall marks in Mercantile Law and Practice, (b) 45 per cent of the full marks in Accountency, and (c) 33 per cent, of the full marks in each aft the two remaining subjects Those of the successful candidates who abiam 65 per cent of the tabal marks obtainable will be placed in the Einst Division,
- 7 Candidates for the Intermediate Examina tion to Commerce will be examined in the following subjects:—
 - (1) English
 - (11) Political Economy.
- (111) Mercent le Law and Practice
- (IV) Accountancy.

- EXAMINATION FOR THE DEGREE OF BACHELOR
 OF COMMERCE (B. Com.)
- 8 The Examination for the Degree of Bachelor of Commerce will be held annually in Bombay in the first week of September
- 9 No condidate will be admitted to the brammation unless after passing the Intermedate brammation in Commerce at this University has the branch safe College or Institution, recognized by this University in Commerce and unless he produces satisfactory testimentals under Form 2.
- 10 Candidates most forward an application to the Registrar two weeks before the commence man of the Examination.
- II Each condidate most pay to the Registrar through the Principal of his College or inherwise as the Syndicate may direct a fee of Re 50
- 12 Te pass the examination the candidate must obtain (a) 45 per cect of the full marks in Bonking Law and Fractice (b) 45 per cent of the full marks in the Veluntary Subject, and (c) 33 per cent of the full marks in each of the fur remaining subjects. Those of the soccess ful candidates who ubtain 66 per cent of the total marks obtainable will be placed in the First Division.
- 13 Caudidates for the Degree of Eachelor of Commerce will be examined in the following subjects
 - (1) Engl ab
 - (u) Economic History
- (111) Economic Geography
- (17) Banking Law and Practice.
- (v) Organisation of Industry and Commerce.
- (vi) One of the following Voluntery Subjects 1-
 - (8) Accountancy and Auditing
 - (c) Actuarial Science with Relative Mathe-
- mation.

to formulate a complete policy of improvement and extension which can be premelgated for the guidance of all who devote or are interested in development of primary education in this provings.

5. The Government of Ledia in parsgraph 11 of their resolution of the 21st February 1913. laid dows a sember of general principles in regard to primary edecation. These may be taken ee the besis of the constructive work which is now in contemplation : but, so the Government of India esticipated, they may have to be modified In some respects to suit the local conditions of the previace, and they will farther require to be eupplemeeted is sumerous points of detail. To this eed, as also to obtain commetent advice in framing the comprehensive policy above referred to the Local Covernment ledesirous of securing the assistance of a strong representative committee which shall include administrative efficers, educational experts, and non-officials whe are specially interested in adaptation. Such a committee will accordingly mest et Naioi Tel early in Jane, under the presidency of Mr. T. C. Pigget, I. C. S. Judicial Commissioner of Oadh. In addition to this general committee it is hoped to have sobcommittees or small separate committees at work e pon certain special sections of the question. The reselt of their lebours will be communicated to the main committee which will incorporate them with suitable recommendations in its general report. There is so desire on the part of the local Government to restrict the committee's sugairy to specified topics or by definite limitations. At the same time there ere certain main branches of the subject on which recommee dations are specially invited. These ere :-

I.—Improvement of teachers.

II.—Suitability of the carriculem.

III.—Education for special classes.

IV.—Nature of the school beildings.

VI.—Eccouragement of girls' schools.
VII.—Machinery of inspection and control.

After dee examination of these subjects the committee will be in a position to advise Gorariment as to the most profitable employment of the available resources in the different parts of the province.

- The following general observations on each of these serves topics may sesist the committee in developing their enquiry:
- I. Teachers.-The roles on pages 67 and 68 (chapter fill) and 261 to 270 (chapter VI) of the District Board's Manual and pages 119 to 124 volume I of the Musicipal Masual deal smong other matters with the qualifications, pay and training of teachers in secondary and upper and lower primary schools. Thasa rules read with rule 253 of the Educational Code abow that primary achools depend largely on middle rernaculer schools and normal schools for their batter quelified teachers. This connection between the twe branches draws is to the scope of suquiry, the general achame of vernacelar middle edecation including normal schools. Our of the main problems before Government is the extension of the supply, sed the improvement of the quality of primery teachers. Verious seggestiens have been made. Of these the most obvices is the offer of better pay and indecements, a matter en which the views of the committee are juvited, due regard being had to the limited scerces likely to be aveilable. Further poiets for consideration are whether the greet of superior pay and ieduce ments will justify an insistence on higher qualifications; and if so, how facilities are to he prowided for etteining sech quelifications. The following suggestions which have been put forward ers commended to the committee's coesiders.
- (i) to expenent the pay at teachers in middle vernseoler echools, and so to secure a higher class:

tion :--

(ii) to raise the steedard for the vernacular

[.] V.—Encoeragement of eided and indigenous schools.

course of study for at .

(111) to sucurrage selected candidates to study for an extra year by the promise of admission to

a normal school, and of scholarships of necessary A forther auggestion which mure particularly affects lower primary schools is to increase the stipends in training elasses

7. II Curriculum -(1) In considering the schemp of spetroction the duminant issue is the durability and value of its infinence on the mind of the papil There is a volumn of swidence before Covernment that the child who finishes his schooling at the lower prin ary stage has acquir ed little that is meefal to him, and is very unlike ly to remember what he has been tenght It is for the cerings consideration of the committee whether this is correct representation of the facts If it is, then it is an inevitable deduction that the time, money, and audesvonrexpended on the education of children who do not pursue their studies to the upper primary stage are wasted, and they are harassed without receiving any compensating benefits, while, the fruitless ness of the results tends to rause a hostelity to unr educational system in the minds of the parents It will be for the committee, if it accepts this view, to seek for effective ramedies The mere grouping of lower primary schools round upper primary echnols may not suffice and more direct action may appear advisable in the way of gradually raising the former to the atatus of the latter, and of hoking the two sections more closely together It may sven be found desirable that the particular plans for the aucouragement of education which take the form of the reduction or remusion of face can be more appropriately directed at the upper rather than the lower sections of primery schools. The whole question is one of the deepest importance requiring the carnest consideration of the com mittee

finel examination and possibly to extend the of study anymive two men questions. The first is whether they should be identical in rural and urban schools, the second refers to their scope. The epinion of the Government of India, which is supported by a strong body of anthurity. is in fevour of answering the first question in the effirmative There may however he room for minur variations nither generally or in particular parts of the province Instruction in the rent and revenue law should at unen he rejected, and the value of quasi practical lessons in agriculture is negligible, but there is a considerable feeling in rural tracts in favour of making children familiar with the village map and papers A. regards the scope of the corrionism there are two schools of entbursty Gos would confine pasmary education to the teaching of reading. writing, and srithmeter spfficiently to enable papels to read and write letters, keep simple eccounts, follow a newspaper, and understand the patwerse records The other would extend the contre and train the children in habits of pheerys. tunn and enalysis in the hope of strengthening their general sutelligence and improving their chances of success in their ordinary avocations With this phiect such subjects as drawing, manual inatroction, chiect lassons and nature studies are treated so important inpreducts in the curreenlum In considering the comparative advantages of the two avetems of education, the committee will and subt have due ragard to the wishes of perents. thu short time available for the whole course of primary instruction, and the capabilities of the teachers available now, or likely to be available for some years, for imparting in an intelligent and interesting manner anything beyond the range of thn threa R .

> (111) Another assoc of grave moment is the possibility of special moral or raligious teaching in primary schools Here again the attitude of parents is a factor of high consequence.

(iv) Finally the proprinty of physical training on Europeen or indigeninge lines might be consi-

(ii) The onestian of the text books and courses

dered in connection with this branch of the subject, together with the necessity for introducing a simple course of lessons in bygiens.

Education for Special Clauses .- The · 8. III. problems connected with this branch of the question are akin to some uf those alluded to under bead II (ii) It has to be recognized that our olementary echools cater for two classes ut popils. For use class their teaching is the basis on which higher education will subsequently be built up. As a mental equipment its gape can be subsequently repaired; and its main foundation is to prepare the child's mind for the easier assimilstion of more advanced knowledge. With the second class of pupils, the requirements are different. The primary echool course le the som total of his systematic education; he leaves it to follow his trade or celling. The teaching therefore which he should receive ought to be fielf-contained, complete in its degrae and as durable as possible : for no subsequent opportonity will occor of correcting or empolementing it. It to thus a serious question whether on attempt should be made to differentiate the coorse for those two classes of echolars. Is it proper and practicable to have separate classes or schools for the sone of auriculturists and artisans, or for boys generally whose castes and occupations do not indicate the probability of their going on to encondery schools ? If so, what type of special curriculum should be prescribed? Auother phase of the same question is the provision of teaching for the lower castes, generically known se Sudras. From certain recent statistics it appears that not of nearly six million Chamara in the province unly 1,063 go to school; out of 370,000 Kisans only 576; unt of 990,000 Korie poly 861; and out of \$50,000 Bhangis only 5. The problem of altering this deplorable state of affairs is full of difficulties; but in solving them the Government is confident of special assistance from the growing feeling emong the educated Hinda community in farmer of elevating the condition ut the 'nutouchable.'

9. IV. Buildings-(i) It is frequently sugcested that the expansion of primary education ie being retarded by a too rigid insistence un school bunses of a comparatively expensive character. The Committee should therefore examine the stendard plans prapared under the anspices of the Department of Education with a view to say practicel simplification or cheapening which will not involve bravy recurring untlay on repairs. It should also be considered whether the plans are equally suitable for all parts of the province, ur whether different styles would be appropriate in different divisions. And the Committee may find itself able to advise un the feasibility, during the earlier years of a school's existence, of hiring or securing on nominal terms, a building for it from the remindar or co-sharers of the village,

(ii) In connection with the question of building, the Committee's attention is directed to the possibility of devising some mesns of testing the etability of new primary echools. Experience bas shows that echools often come into existence owing to forluitone circomstances and not in response in any ganuine demand for education, The seel of a district officer, or the need of a local person of influence, sometimes supply a temporary stimulus for creation of a school, which ceases to coist as soon as the climalus is withdrawn. In such cases the money, if any spent on the buildings is lost, It is therefore a metter for consideration whether in the case of schools which cannot stand a responsible test of siebility, a guarantee shuuld nut be demanded for the provision of suitable school accommodation for a defined period, as a condition precedent to the opening of a new school,

"(iii) Play-grounds and their equipment are closely allied subject. Suggestions are invited from the committee as to what they consider advisable regard bring had to ather claims on the fands available. The embellishment of school buildings with nest sod attractive garden plots is also e suggestion of interestion in the contractive garden plots.

V. Aided and Indigenous Schools -The and ecope of sided and todigenous schools itters on which the Local Government will the metured opinion of the Committee s have been expressed on to the value of ocation they impart, and the role essigned m in the Government of India's recent tion is a strictly limited me On the hand, the Local Government while fully ng that no conntenance should be given in re' echools, is impressed with the helief bere may be private schools which meet a se local demand, and that special sectaman is such as mektabs and pathshelas frequent vey, or coold by a Grent in Aid be induced nvey, a moderately good education com is with the contraction to the upper primary ne of District Board schools If this view ends stealf to the committee, it would be o pudertake en examination of the Grast d roles in the Dietrict Board Manual and to withern as regards the edequacy of grants, meral conditions imposed, and the degree of ol unsusted on.

VI Girls' Schools -This is a schiect in the problems, while parallel to those siresdy ed to in coonection with boys' echools prepecial difficulties of their own The need mprovement and expansion is particularly ing The statistics published by the Gov ent of Indio, to which allowed has been dy made, show that in this province thu ntage of girls in primery schools to the total le population of achool going ege 'is unly er cont, while in the Punish, and the val Provinces, 15 which the proportion 18 lowest, the percentages are 2.2 percent and er c nt respectively Signs are not wanting public interest has been aroused, but so far practical work has been done except by the suned effort of individual enthosiasta lu circumstances it is advisable that Govern while not shrinking from its responsibilities omoting female education, and not bentating

to take the instativa in ereas where development would be otherwise indeficitaly poetponed, should follow and sid private enterprise, rather then ambark up deligate experiments with the risk of running counter to prejudices the estent and strength of which it is difficult to gange. The edasneemant of female edocation, connot be on e purely statistical hame and the Committee's recommendations are invited onto the best means of sacurage at by encouraging and assisting the opening and maintenance of private echools under reliable management. In regard to Board's schools at abund be considered to what astent emall girls can without objection he taught in the same school or boys The Committee should alen advise what, if any, modifications of the primary corrioulom are necessary for g ris schools and whether special test books, and reduces boors of atudy shapld be prescribed for them

Finally there remains the thorny problem of the supply of teachers. This is a source of growing duriefy and difficulty, and my sugges tion for solving it will receive sympathetic considential it is hoped that the committee will be asserted in this part of its lebours by the conclusions of a separate conference of ladies and gentlemen who have preclinal experience in the matter of famile adoctation.

12 VII. Inspection and Control .- With the official suspecting staff, the policy of Government has been to associate pon-official school commattees whose fonctions are laid down to the District Board Manual. The manner in which these functions are supressed, and the means by which the interest and co operation of the people may be enlisted on bahalf of primary achools are matters up which the Committee's opinion and proposals will be welcome. The officials brought into immediate contact with primary schools are as a role the Sub Deputy Inspectors The advice of the Commettee is requested no a proposal to mercass their number, so that there may be on the everage one per Tahail, as well as on a proposal to appoint a separate Sub Dapoty Inspector for the schools in each of the larger manuspalities As regards lospectors the Local Government will be glad of the Committee's views as to the

edvisability and necessity of appointing a certain EDUOATION IN THE MAGAZINES. number of additiousi Inspectors, possibly one for ench of larger divisions, due regard being paid to the enticipated growth of primary schools, tha assistance with the Boards will expect from the Education Department, and the prima importance of the most economical use of public foods in a campaign of this magnitude. The question of improving the pay of the inspectorate in all its prades is before Government at present, but any suggestion which the Committee may wish to offer will receive the most careful attention.

13. Finally the Committen is invited to review and report on the necessity of the revision of tha regulations for primary education as prompigated in the extant orders in the District Board and Manicinal Manual and the Educational Code.

14. Having reviewed the whole field of primary education, the Committee may find itself in a position to formulate some general principles for the distribution smang the various divisions. or even districts of the province, of the fands, which it is expected will be available for the development of primary education within the next uninquennium. The selection of the areas in which new schools will be apened, or of the private schools to which aid well be given, is essentially e metter which each District Board most determine for itself. But, if consistent and general progress in to be made the grants of public money must not follow the idiosyncraciae of individual Buards or district officers; they muet be need as a lever for securing moderate pniformity in the advance. It may consequently be possible to make a tentative allocation of pus resources by areas, and thereby to indicate tha ideal at which each ares should aim. Tha factors for this exhaulating, empirical though it must largely he, are the existing standards of literacy in the area, the school-going population of the cases which welcome adjustion, the present supply of achools, and the absiz which tha area may reasonably be espected to lake in eapplying the 300,000 children whom it is hoped to secure as a minimum addition to the number of the primary scholars in the province,

(INDIAN).

Education in Japan-

The Shogone who had held ewer in Jepan for a period of about sie hundred years were opposed to popular education under the mistaken notion that the spread of education might weaken their hold on the country and depriva them of the roling powers. But with the accession of Mutanhito, father of the present Mikado, as tions education became a question of peramount importance on which both Government and peopin bestowed the greatest attention and care. While the former began by starting model schools in avery town and making education compolarry by legislation, the people followed the lead and founded schools in villages and bamlate to meet local requirements. In this way within a comparatively short space of time every village of Japan bad arrangements made for edocation on national lines. But the Japanese were not contented with this : They set themselves to find out the best methods of imperling instruction to their boys and after years of discuseion and asperiment, kindergarten was socepted as the best eystem, and introduced in all the echools of Japan. Good care was slee taken in the selection of test-books, and those that are now in nes in elementary schools are written in easy and elegent language and contain beautiful and instructive stories, most of which are specdotes taken from the lives of distinguished patriots and national beroes. Guardians and parents render the boys every assistance in going through and nuderstanding these etories and atimolate their interest and coriosity by the menoer of their talling them. Games and antertainments form a special feature of Japanese acbools. In every one of them music holds en important place, and it is a charming sight lo sea boys in oniforms coming out of the schools in films at the close of school hours singing songs in accordes atrains. Whenever two or three boys meet they fall to a tuna and are joined by other boys in the streets. There era egsic exention earties io which both teachers and boys go out for long walks. On such occasions the boys are to toure thamsalves to all sorts of bodily hardship and soffering. One day a large field filled with mod and mire is to he crossed in the midst of raio and atorm, another day it is a high peak of a muzutsiu which is to be ascended after miles of tiresome journey in scorching annuy wanther. It is a common sight to see Japanese children being throws joto the see or the river with \$

to teach them the art of swimming imes elso they are divided into parties and o tournement in the coorse of which they reo practicel lessons to all the tactics of werfere A boy guilty of an offence in not any corpored punishment nor evou enoken while or with words of rebuke, a few words vice followed by detention after closing deemed sufficient poo shmunt and adequate tive for ell paltry offences. If a boy be o by a school fullow, hu has no redress to only reprimend to meet, for an unavenging in this matter denntes out only cowerdice dee loss of family prestige and bosons Jepunese language consists of more than cheractere Jepacese children have no pens nse brushm meteed The facility with h thuy bundle the latter well prepares them be srts of drawing and painting in which Japanese boy is more or less proficient -Leader

1913]

Growth of Education

lecture on the "Growth of Society and etion" was delivered by Mr D P Thakore, a Pacharyeppe's Hall when the Hoe Mr ica P R Spodara Aiyer preeided The wing is an abstract taken from the lecture -Education to ea the etymology of the word tes, a process of drawing out what is suberent so A system of aducation which provides ergest scope for the follest possible develop t. prowth and propress has a claim to our ettention Most of the modern systems incetion fail to find the necessary scope for duvelopment of native talante and so orn not mendably Instead of fostering ustues] gilts tend to suppress them The object of sation is to prepare the student to successfully thu hattlus of life and to tocrease experience othuertificial civilized anvironment iscreated, cation has become all the more a metter of senty Thu only way of escuring large sad sent results by means of education is to give an liberal and practical manner, on lines re munded by our past experiences of good and

So adacation must be made computery colligatory and also fere of all costs as the job of children end young man whose persent not effort the meann of bringing from up the connection, it should be observed that the mes and interest of the other sex hould not verticated. If the work of programs as to run joint and cohampered, education must be insided to women folk size. To deny them ington is an act calculated to encourage

sgnorance and superstition Again, every educational policy which uses at perfection should adopt such means and methods as would tend to a perfect development of the health and atrought of the body. The body requires to be taken care of as moch as the mind.

The general concern of all educational schemes should be to get good practical rusults and this can be done only when example experiment and practice are given in the place of numbitential theories When this has been effected the human talking muchine will by transformed into up ectivaly productive organism and will be regarded with respect as a fellow labourer worthy of his here If education is a means to progress and freedom the child seeds not only the three R s book learning and general knowledge of sciences but if imperatively domends practice in using his brodn command of tools opportunity to test peactically the value of theoretical knowledge and living examples to prove the trate of profess ed precents

Improvement of Schools

The Second Aon versary of the Travalar Board High School Day was celebrated with colas on the Siet bitmo. The Hon ble Sir V S Srinivasa Sastri delivered an interesting lecture from the cheer, in the course of which be said.

Old hose menting together cannot speed their time more profitally than to thick of improving the school under whose roof they are met. It always struck me as an imperfection to the arrangements that no mechinery is provided for interesting the old students in the walfare of the school, I have myself been an old buy of ecveral schools I bays fult greatly inturested in their growth I have often thought that I may be oseful to the outborities There is no means of my comparing notes with those who might toke an interest in the institution A meeting of old boys like this might be made an occasion for descussing the future of their school te evereur of erob ed their tadt words eoo er end be mede the means of effording suitable education to the children of the locality | Lhave known really some oseful ideas comp from those schoolly opconnected with the management of the metitotion Some of you are educationists engaged in the shaping of other institutions so that you should be consulted in the monagement of the echool This segme to mn to be only natoral However, I know there are a great many difficulties connected with it. If in your meeting of teachers, the Headmaster who slong

is responsible for the internal working of the school, consulted with you, placed his difficulties before you, took you completely into his con-fidance and acquainting himself with what is taking place in other places that would be the means of adding fresh life and vigour to the work of the school. Such a thing is nowhere done. I know of school and coilege days; they ero mostly composed of students of the year whose advice on such matters may not be a very great essistance, but old boys like you whn are mature man, a great many of whom are directly connected with education may corve a aveful purpose by discussing the wants of a school. Gentlemen, I am aware of the real condition of meny of our indigenous schools of this Presideacy. I know every school has its crying wante. There are defects of one sort or anothee, most of them well grounded and when stands in the way of improvement being effected, is penally what we call "vested interests." An old teacher who count to be retired continues still on the steff. Nobody has the courage to tell him " will you please make room?" A manager who is a meddlesoms person rules the school as if he were himself the Headmaster with crade notions. borrowed perhaps from the neighbouring fields and treate the masters as personal seria; pr it might be through long yests of lar descipline boys have got out of bend, and sothraned and dethroned masters at their pleasure. It is the strong hand alone that can put down these evils and effect reform. Some femily will have to suffer, some une person put to disgreer, or some Inefficient person removed from the place which he has neuroed. In such cases noce Indian Society is under a very serious disadventage, We have elways had an coormone love for individual comfort and very little regard for institutional efficiency. A parson who is ne-willing to excrises the interests of the school simply becomes an old men is likely to suffac is apt to be looked down upon as exceedingly severe. If the remedy is not applied at the right time power is weeksned, action persiveed, diesetisfaction grows worse and worse, and the men who comes to sweep inefficiency away, bas to infliet greater damage. It is etways illconsidered obstity which is exercised in favour of individuals against large institutions. Nearly every school bas its evils impairing its efficiency. What we want is a strong public opinion backing up the hands of the reformer, and strengthening his hands. If new forces ere to be brought into existence in our excisty it is the aducational institutions that we have to regard first and foremost. In schools inefficiency nught not be

talerated, any leciency shown. Old hope of some educational experience who have learnt the exact condition at things first-hand and listened to all morts af complaints and who levies remedies and engages them to the proper enthorities control to exactly put away. I know it requires great deal of the engages and estimated in the proper and the engages and extinct in Nobody can access these old people of asifiable designs.

Efficient Education.

The Poces Manicipality presented an address of welcome to His Excellency Lord Willingdon on the 17th instant. The following extract from His Excellency's reply is very interesting:—

"Efficient education for the youth of every country is a matter of the despert concern foul Governments and you can be assured of our sympathistic concideration in carrying, out the accellent scheme contained in your address Bett important as adocation of the brains, I amoust of those who have always foll that adocation may be body is an equally arguest accession. The propose of the second forement of the second for the second forement of the second forement of the second propose and open appears for your people which will some fair children belog brought up viscous its beain, strong and self realisate in body fitting thumselves by work and bealthy resident to body mad boought be clitten of your form."

POREIGN.

Mr. Pease on Education.

Mr. J. A. Pesse, M.P. President of the Bord of Education, addressed the meeting of the Association of Teachers in Technical Institutions which bot been in Conference during the day may 13. Alderman Werbarton, Chairman of the Bredford Education Committee, presided, and was emprorted by the Vice Character of the University of Leads, Mr. Michael Solder, C. B. University of Leads, Mr. Michael Solder, C. B.

Mr. Rean said he would like to strike a note and varinging in regard to what he was should be say. He was not going to outline the new Education Bill; that must be deferred until he had an apportunity of addressing his fellow-members at the House of Commons. I was, of courts of the House of Commons in was, of courts a the House of Commons in was, of courts have prevented it mught, and it was, of courts have a the court of the strike the strike of the strike the strike the strike of the strike the strike of the strike the strike of the strike

y Schools, and of those only one in 18, or cent, went forward into the Secondary of the country which were recognized by ward of Education Each year the proport children entering the Secondary Schools who Elamentary Schools was noticed to the years of the country of the count

e of the problems was to know what could ne to enable children, irrespective of their position, to go through the Secondary ple end on to the Universities. The problem ot been solved, though much had been dens at direction. There were, of contre, higher entary Schools-he thought shoot 50-m ountry. They had to face what he recarded very unfortunate decreton in the Cockerton ment which prevanted anything like higher ation heing given in the Elementery Schools arel districts there were o large number of ple which could not get into touch with udary Schools at ell Therefore it ecemed able to him that they elouid abolish the terton Judgment so that in the last year a ain amonot of training might be given in l areas. They had else got continuation ols, which occupied a nuique position, and so is they went they served a very good purpose there was some lack of permetence in boys girls leaving schools, and they had to conr whether they should use computeron in tion to attendence at continuation elesses was of opinion that compulsion should only resorted to when they found that ell ptery means had failed It would be better n young folks readily went to continuation cols rether than being compelled by statute matter bow good avaning work might be, it but a poor aphatitute for day work

bey had, however, to face the appelling feet is a large majority of the children who steads the Elementary Schools and the foundation of oos education had been well laid, and not to ward and continue their education at all jers and boys and girst hopelessly duriting min on alley occupations, and it was too thoused in stocation and for the government of the continue of the continu

They had to provide the preliminary liming uncessary for those who desired to proceed

into occupatione which required highly trained knowledge, such as the public services, public life, the learned professions, the control of large commercial undertakings, and so on But it was to technical education they must look to take the great reserves of the country, and with the de cav of apprenticeship it wen obsolutely important, if they were to face international company tion, that they should be up and doing. He had been emazed at the appreciation of employers of trada schools day trade schools especially, and something more was to be donn to increase the day trade schools. En was glad to say that Mr. Lloyd George bad looked at the matter from the sams point of view se himself, and it had been decided in meresso the grant from £2 17s a head to £5 for day students and for those who were in residential sustitutions, such as training ships, and for the mercantile marine and the Navy, the grant would be £10 metand of £5 in the nest

Browning's Earnings

An extremely interesting letter, written by Browsing in 1880, and hitherto appulhished appears in the "Daily Chromicle" The contributor, Mr. J. Bessiter, explains that it was written to the Honous Tex nuthorities. It is dated by Wanneth Crescent, W., the S3rd March, 1880. We care the following extracts.

"My oems are mopopilar eed needleable, being only written for upself end a critain small number of critica whose approbation is attisfaction enough if publish them—never more than ease in eyest, at various intervals—combines of exercily lears. My publishers give me a ruyally, whether the state of the combines of the

"The and I the receive f apposed to be spital, it I invested it, the interest would, of coorse, be park of my income. But I have furnished you with an account of the little independence which enables me to write merely for my own pleasura, and not that of the general winhing.

"You will see by the letter from my publisher, which I euclote, that for the only book I published last year I got £125, and that rather from his considerate kindness than hope of profit (the 'fast ten book' to which he allowe have been printed in the course of some eighteen or trenty years). "He certainly some to maif I was to sell as many books from my book-case as would produce £125—that would not contribute any income. The one instance of my contributing to a magasine was ton years sgo, I think—when westing to belp a charity, I gave a poem the produce of which £1000 I headed over as once.

"But I sometimes get a som from enother soorce, under conditions quite different. My books consist of poems published from 1833 to 1863, or thereknots—ell at my own supener, which was caver rapaid. When aventally collected they were atterotypad, and sold singly for struck off, this is called an edition and I receive a small 'copil's.

"Last November, by this process 'Volume 5,' brought me £37-10s.

"I believe I have not yet received what lald out in the origions and more expenses principal and more expenses principal and more expenses principal and more if get in like monore a similar som for the posmes of the more publishers, good feeling—as the copyright expired, and he or anybody may print them at his plaster—as we adone last rear.

"I was presented in November with £62.10s,, on this account.

"I bave got a good deal of reputation—Usiversity boncors, sod so forth—but that is just because I over wrote for monor, My works cloudlest way larged; in America, bod do not cloudlest way larged; in America, bod do not many of the many friends obtain more fore single posm, novel, or pley then I ever did from all my works put together, But I take my way.

Examinations

There are few must in English public life whose speches are always worth residing, and fewer still whose average others are designed and fewer still whose average others, and the content and the still whose average of the state of the still remarks in the recent that he specially to the former and probably to the latter class. His remarks in the recent that between points; and was make one polong for reproducing as longth that portion of them which concerns for the content of the still reproduced the content of the still reproduced the still reprodu

which indigenous education is tested. Mr. Balfour does not share the outhesissm of those who think that the best oil round man can be found by the reachinery of the exemination room. "Superetitions," be truly observed, 'are very apt to grow around pasts of the policies which we adopt, but I should like to herr a really good commentary on our system of competitive examinations. The hon'ble gontlemen who has just est down described the inscriptions of bonour put up in elementary schools recording the names of these who have enccessfully passed esaminations. Ask any parent-I do not care from whatever class bu may be drawo-who has e sup at a Secondary school or a University, what he most desires, and the enewer will be, " Success in exeminations," and so it goes on. 1 do not deny that in certain respects examinations, and erun competitive examinations, are an absolute necessity; but I think as here got into the babit of talking of that which is an unbappy necessity as if it were on admirable Institution. Eseminations are really most soul-killing justitations. I believe they put the human mind absolutely in a wrong position with regard to knowledge. I believe they are very bad for the tencher and very had for the tenght. You hear it said "So and so is a most admirable school and has the best teacher ever knuwn." The question is asked, "On what ground ?" and the reply is that a certain proportion of his scholars get ench a unmber of calibitious or whetever it mey be. That and that alone is thu test by which we measure the merits of the system and the results upon the child or young men and the benefit to the country. I believe it to be wholly and atterly wrong from beginning to end. I am quite aware that some of the praisers of the old system, who say that we got better mun to public service and elsewhere in the old times when there were not these violent competitions, or aggerate greatly; but do not lot the Committee betwee there is no troth in what they say There is some troth la it. We all know, and If we took the trouble we should all know more of the menner to which you can the vitality of the young and make thom so admirably adapted en pass a kaminations anocessfully that, when the necessity to pass them is over, they are adapted to do nothing else whatever. I think those who criticised our ordinary muthod of education in the pld days saw the dangers of it. In those days there was great jealoosy; the question was maked, " la general aducation necessary ?" and the auggestion was made that it did not matter. All that has good.

State Sovereignty.

C. F. Adems (Harvard University). er on the History and lestitutions of the States of America at Oxford University. ed the fourth end concluding fectors series of Oxford He referred to the of which he treeted in hie first lecturemerican form of local self government by them so Steto sovereignty Great is had for years, he might even say for ctions, been wreetling with the Irish n Ireland, so they in America had ent canes to realize, had for centuries been lese discontented, and at times normly n of the United Kingdom , it was so still, ey were now considering, and proposed ently econ to enect, a messure designated Rule Following upon the War of sion in America there was a section of the ry ecething with discontent, there was s of rertlesanese, with acts of violence and gee on individuels This was only 40 years to der peace, concord, and good fellowabsp ed throughout the country Peradexical es uded, the remedy for the ills conceanent on or was found in a recourse to the avatem a had coused it The principle of State eignty applied to its extreme form in practice the trouble, but 15 years later that same iple to its proper form, now known as Local Government, or, in other words, Home Rale, rbt to e close the unrest sod disturbance a naturally need from strife In this son beneficially to be atndeed by Grant Bestain sponing of the sames still confronting it in nd? There was the evideocy, smong others, Russell, The Times Criment Correspond that the barn of Celt to Saxon, and the empt of Saxon for Celt, samply paled and expressionless when compared with the empt and hata falt by the Southron towards Youkes anterior to the Civil Wor and while as in progress But it was all over nowont and forgotten history Not one man, be e bold to assert, could in all America be d gravely and dispassionately to advocata corrence to the policy of force and repression union had, east, comone, resistant, a daily brief and discredited period between 1266

Technical Education

1876

he Seventh Annual Conference of the Associaof Teachers in Technical Institutions was ned at Bradford on May 12, Mr P. Coleman, of the Northern Polytechnic Institute, London, presiding

In his address the President oaid that et precent teaching woo on everage ill-peid A fow years ago it was disgracefully poid, and the improvement was only a relative one A technical matritute could not be said to give adequate remoneration of a Principal a calary for full time was less than £500 or a foll time qualified teacher's salary was less than £160 in the coce of a men or £120 to the case of a women It was quite erreneous to suppose that the selory acceptable to the young teacher with little or no experience was a proper recognition of the services of a man of shility who had worked for 20 years The report and recommendations of the R yaf Commission on University Education to London showed a hise that could only be due to a complete misconception of the work and standing of the Lyndon polytechnics in any national avelem of education technical education required the most help, if it was to be placed on a proper basis and was to be abla to fill its proper functions to the national economy Porhaps the prestest need in the Euglish menofecturing world to-day was the realization of the necessity for a conces of training in a technical college as a preliminary to specessful work to the direction of industry Tho need was being reelized more and more, and he hoped the time would soon come whan employers generally would realize that it was good business to send their apprentices to technical matitutions during the day for a limited number of periods in the week If the nation was to be an educated netion a post elementary education must be the role and not the escaption, A large extersion of the system of junior technical acheols wer absolutely necessary it. ouder modern conditions, English industry was to continue to be carried on by skilled and autalligent lebour.

Colonies in International Law

The first of a course of lectures up Colonial problems organized by the University of London, King's College, was delivered at King's College, the subject of the opening lecture being "The Colonies to International Law," and the tecturer, the Ret De T J Lawrence, formerly Deonty Professor of International Law to the University of Cambridge Dr. Lawrance, to the course of his lee are said the position of the Colonies in International Law was full of difficulties and aren of danger in the laters, and was likely to impose a heavy tex on the wisdom and good

edvisability and necessity of appointing a certain number of additional Inspectors, possibly our for each of larger divisions, due regard being paid to the enticipated growth of primary echools, the assistance with the Boards will expect from the Education Department, and the prime importance of the most economical use of poblic funds in a campaign of this magnitude. The question of improving the pay of the inspectorate in all its grades is before Government at present, but any soggestion which the Committee may wish to offer will receive the most sareful attention.

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EDUCATION IN THE MAGAZINES.

(INDIAN).

Education in Japan.

The Shoguns who had held swey in Jepen for a period of about eia bundred years were opposed to popular education nuder the mistaken notion that the spread of eduration might weaken their hold on the country and deprive them of the roling powers. But with the accession of Mulauhito, father of the present blikado, ustional education became a question of paremount importance on which both Government and people bestowed the greatest attention and care While the former began by sterting model schools in every town and making education compulsory by legislation, the people followed the lead and founded schools in villages and bamlete to meet local requirements. In this way within a comparatively short space of time every village of Japan had errangements made for oducation on national lines. But the Japanese were not contented with this They set themerives to fied out the best methods of imparting Instruction to their boys and ofter years of disenseinn and experiment, kindergarten was accepted as the best eystem, and introduced in all the schoole of Jepen. Good cere was also taken in the selection of tent-books, and those that are nuw in use in elementary schools are written in easy and elegant language and contain beautiful and iostroctive stories, most of which are ausodotes taken from the lives of distinguished patriate and notional bernce. Guerdiaus and parents rander the boys every assistance in going through and understanding these atories and etimolate their interest and curlosity by the manner of their telling them. Games and entertaiomenta form a special feature of Japanese schools. In every non of them mosic holds so important place, and it is a charming eight to see boys in noiforms coming out of the schools in files at the close of school hours singing sooge in sonorous strains. Whenever two or three boys meet they fall to a tons and are joined by uther boys in the streets. There are sgalo excursion parties in which both teachers and boys go oot for loog welks. On such occasions the boys ere to inure themselves to all corts of bodily bardship and suffering. One day a large field filled with mad and mire is to be crossed in the midst of rain and storm, soother day it is a bigh pask of a mountain which is to be ascended after miles of tiresome journey in scorching sunny weather. It is a common sight to see Japanese children being thrown into the sea or the aiver with a

view to teach them the art of awamming Sometimes also they are divided into parties and fight in toorcament in the coorse of which they are given practical lessons in all the tactics af actual warfare A boy guilty of an offence is not given any corporal pooishment, nor evan spoken to harshly or with words of reboke, a few words of advice followed by detection after closing being deemed cofficient pao abmeot and adequets corrective for all paltry offences. If a boy be besten by a school fellow, he has no redress to eeck, only reprimend to meet for an unavenging eilence in this matter denotes not only cowaedica bot also loss of family prestige and honour The Japanese language consists of more than 3000 charactere Japanese children bave no pene They ose broshes tostead The facility with which they haddle the latter well prepares them for the erts of drawing and pointing in which every Japacesa boy is more or less proficient -The Lecter

Growth of Education

A lecture on the "Growth of Society and Edocation' was delivered by Mr D P Thakore, in the Pacharyappa's Hell when the Hon Mr Instice P R Sundara Alyar presided The

following is an abstract taken from the lecture -"Education is as the stymology of the word denotes, a process of drawing out what is inherent in men A system of education which provides the largest scope for the fallest possible development, growth and progress has a claim to our best attention Most of the modern systems of education fail to find the necessary scope for the development of native talents and so are not commendable logited of festeriog natural gifts they tend to soppress them The nhject of edocation is to prepare the student to soccessfally fight the battles of life and to mcrease experience Since the artificial civilized environment is created education has become all the more a matter of accessity. The only way of securing large ead efficient resolte by means of education is to give it in a liberal and practical manner, on linea re commended by our past experiences of good and So education most be made compularry and obligatory and also free of all costs in the case ut children and voong men whose parauta escoot afford the means of hrioging tham up In this connection, it should be observed that the claims and interests of the other sex should not be overlooked. If the work of progress is to run smooth and nohampered, education most be extended to women folk also. To deny them education is an act calculated to encourses ignorance and supersition. Again every educational policy which aims at perfection should sadopt such means and methods as woold lead to a perfect development of the health and strength of the body. The hody requires to be taken care of as much as the zond.

The general concern of all edocstronal schemes should be to get good practical results and this cea be done only when crample, experiment and practice are given in the place of ansobstantial theories When this has been effected, the human telking machine will be transformed toto an actively productive organism and will be regarded with respect as a fellow labourer worthy of his bire If education is a means to progress and freedom, the child needs out only the three R a book learning and general knowledge of sciences but it imperatively demands practice to ostog his bands command of tools opportunity to test pract cally the value of theoretical knowledge and hving examples to prove the troth of profess ed precepts

Improvement of Schools

The Second Anniversary of the Travelur Beard High School Day was celabrated with edat on the Sist nitmo. The Hon bit Mr V S Srinivasa Sestri delivered an interesting lectures from the chair in the cores of which he said.

Old boys meeting together cannot spend their time more profitally than to think of improving the school under whose roof they are met. It always struck me as an imperfection in the arrangements that on machinery is provided for interesting the old students in the welfere of the school, I have myself been an old boy of several schools I bave fult greatly interested to their growth I have often thought that I may be naefal to the authorities. There is no means of my comparing cotes with those who might take an interest in the institution A meeting of old beys like this might be made an occasion far discassing the future of their school That is one thing that might be done to improve it and be made the meace of affording soilable education to the children of the locality known really some oveful ideas come from those antually appropried with the management of the metitation Some of you are education sts engaged in the chaping of other institutions to that you should be consulted in the macagement of the school This seems to me to he coly natoral However, I know there are a great many difficulties connected with it. If in your meeting of teachers, the Headmaster who alons

is responsible for the internal working of the school, consulted with you, placed his difficulties before you, took you completely into his confidence and erquainting bimself with what is taking place in other places that would be the means of adding fresh life and viscor to the work of the school. Such a thing is nowhere done. I know of school and college days; they are mostly composed of students of the year whose advice on each matters may not be a very great assistance, but old hove like you who are metare men, a great many of whom are directly connected with education may serve a oseful purpose by discussing the wents of a school. Gratlemen I am aware of the real condition of many of our indigenous schools of this Presideacy. I know every school has ite crying wante. There are defects of one sort or enother, most of them well grounded and what stends in the way of improvement being effected, is usually what we call " vested interests." As old teacher who ought to be retired continues still on the staff, Nobody has the courage to tell him" will you please make room ?" A menager who is a meddlesoms parson rules the achool on if he warn himself the Headmoster with crode notices, horrowed perhaps from the neighbouring fields and trasta the mesters as personal anifa; or it might he through long years of laz discipline hoys bevagot out of hand, and enthrooed and dethround masters at their pleasure. It is the strong hand alone that can put down there avile and affent reform. Some family will have to auffer, some one person put to disgreer, or some ioefficient person removed from the place which he has usurped. In such cases poor Indiao Society is under a very serious disadvantage. We have always had so enormous love for individual comfort and very hitle regard for institutional efficiency. A person who is onwilling to sacrifice the interests of the school simply because an old men is likely to softer is ept to be looked down upon as exceedingly severe. If the remaily is not applied at the right time power is weeksued, action perslysed, disestisfaction grows worse and worse, and the men who comes to sweep insflicioncy sway, bee to inflict greater demage. It is always illconsidered charity which is exercised in favour of individuals against large institutions. Nearly every school has its evils impairing its afficiency. What we want is a strong public apioion backing up the hands of the reformer, and strengthening his bands. If now forces ere to he brought into existance in our society it is the aducational institutions that we have to regard first and foremost. In schools inefficiency ought not be

tolerated, nor Issiency shown. Old boya of some educational experience who have learnt the crack condition of things first shoad and latence to all sortes of complaints and who davies remedies and suggest them to the proper activation composition of the proper activation conditions of the sortest suggest them to the proper activation conditions of the sortest suggest them to the proper activation of the sortest suggest them to the proper activation of the sortest suggest that the sortest suggest that the sortest suggest that the suggest suggests and from workthin creditions. Nobody can access these old pupils of relight designs of relight designs.

Efficient Education . .

The Poons Municipality presented on address of welcome to His Excellency Lord Willington on the 17th instant. The following extract from His Excellency's reply is very interesting:—

"Efficient education for the yearth of every contry in a uniter of the deeper concern to all Governments and you can be sentred of not spinpathetic consideration in carrying out the excellent subame contained to your address Bof, important as cleantion of the brise, I amone of those who have always full that adocation of the body is an equally argued oncessity. I am their fore much interested to find that your proceed to secure as well healthy will assure their exhibitors bring brought up rigorous in bride, strong and efficient processing the second by work and besilby ascreta to become useful and bosourable olivine of your form."

FOREIGN.

Mr. Pease on Education.

Mr. J. A. Passe, M. P. President of the Board of Edocation, addressed the meeting of the Association of Teachers in Technical Institution which had been in Conference during the days that Brail and May 13. Addresses Werberton, Cheirman of the Bradford Edocation Committee, presided, and was supported by the Vice-Chencellor of the University of Leeds, Mr. Michael Sallet, C. B.

Mr. Pease seid he would like to strike a note of wording in regard to what he was about to say. He was not going to outline the new Education Dilty that must be discrete until be had an upportunity of addressing his fellow-members of the Hones of Commonst. It was, of course, open to them to draw their own conclusions from the expression of founding, and the residence at the piles of the common that we had not a common to the second the second that the contract of the common that we had not the common that the common that

mentary Schools, and of those anly anse in 16, or 6 per cest, went forward into the Secondary Schools of the country which were recognized by the Board of Education Each year the proportion of children entering the Secondary Schools from the Blementary Schools was increasing, but there was still a great gap, because to actual practice they realized that a large name or papile desired to each their children to Secondary Schools wha, awaig to poverty, were caable to make the necessary secrifice, even though their children pillarical free places

One of the problems was to know what could be done to enabla children, prespective of their eocial position, to go through the Secondary Schools and on to the Universities The problem had not been solved though much had been done In that direction There were, of coures, higher Elementary Schools-he throught about 50-in the country. They had in face what he regarded as a very enfortnosie decision in the Cockerton Judgment which prevented anything like higher education being given in the Elementary Schools In rural districts there were a large number of schools which confu not get min touch with Becondary behools at all Therefore it seemed destrable to him that they should abolish the Cockerton Jadament so that in the last year a certain amount of training might be given in rural areas They had also got continuation schools which occupied a unique position, and so far as they went they served a very good purposa but there was some lack of persistence to boys and girls leaving schools, and they had in con sider whether they should use compuleion in relation in attendance at continuation classes He was of opinion that compulsion should noly be resorted to when they found that ait voluntary means had failed. It would be better if the young folks readily went to continuation schools rather than heirg compelled by statute No matter how good evening work might be, it wee but a poor anbetitute for day work

They had, however, to face the appalling fact that a lergy, majority of the shidren who attended the Liamentery Schools and the foundation of whose edecation had been well isad, did not go forward and continue their education at all, they saw beys and girls hopelessly drifting and hind alley occopations, and it was for those who believed in education and for the govern own believed in education and for the govern gradually draw when the special gradually draw and the should at the appulation which left achool at 14. They had in provide the presence of the proceeding accessing for those who desired to proceed

ieto occepatione which required highly trained knowledge each as the public services, public life, the learned professions, the control of large commercial undertakings, and so on But it was to technical education they must look to take the great reserves of the country, and with the de cay of apprenticeship it was obsolutely impor tant, if they were to face international competition, that they should be an and doing. He had been amazed at the appreciation of employers of trade schools day trada echools especially, and something more was to be done to increase the day trade schools. He was glad to say that Mr. Lloyd George bad looked at the matter from the esme point of view as himself, and it had been decided to increase the grapt from £2 17s a head to £5 for day students, and for those whn were in residential metitotions such as training chips and for the mercantile matine and the Navy, the grant would be £10 metend of £5 in the rest

Browning's Earnings

An extremely interesting letter, written by Browning to 1800, and bithatic unpublished appears in the "Daily Chronicle". The contribator, Mr. J. J. Bostier explains that it was written in the Income Tax authorities. It is dated 19 Waiwick Crescent, W., the 23rd March, 1800. Wa give the following extracts.

"My noems are napopalar and annaleable, being only written for myself and a certain animamber of critical whose as probation in selection energy. I publish them—nerer more than one to a year, at versions intervals—according to certail year. My publishers give me a "royally," profit from the resuscition: I should do saif the wright reschal a second edition, that they never do receiv it, only one puce, many years ago, but that definiction

"The anm I thus receive I supposed to be capital, il I invested it, the interest would, of course, be part of my income But I have for niched you with an account of the little in dependence which canalise me to write merely for my owe pleasurs, and not that of the general public.

"You will see by the letter from my publisher, which I coclore, that for the only book I published last year I got £12%, and that rather from Ha considerate kindness than bope of great that her books? I wo which he slieded have been printed in the course of some eighteen or issuity years.

- "It certainly seems to me if I wase to sail se many books from my book-case as world produce £125—that would not contribute any income. The noe instance of my contributing to a magains was ten years ago, I think—when wanting to help a charity, I gave a poem the produce of which £21001 I handed were at once.
- "Hat I somelines get a aum from another source, under conditions quite diffuent. My book counist of poems published from 1833 to 1853, or thereshouts—all at my own appeas, which was never repuld. When avantually cofficied they were atterestyped, and sold singly in volumes; and whenever any first cubic are street, off, this is called an addition and I receive a small repuls.
- "Last Novamber, by this process 'Vulume 5,' brought me £37-10s.
 "I believe I have not yet received what faid
- ont in the ariginal and more expensive printing ——In any nothing of profits in the care. I get in like manner a similer sum for the poarms of my late wife; he to the let with a late to the publishers good feeling—as the copyright is aspired, and he ar anybody may print them at his picaner—as wee does last year.
- "I wee presented in November with £62-10s., un this account,

"I have got a good deal of repotation—Uois versity booms, and so forth—but that is just because I nevar wrote for money. My works clorosists very largely in America, but do not bring mo a fertbing. I see well aware many of my literary firands obtain unter for a single poem, norsh, or play than I ever did from all my works put together. But I take my way.

Examinations

There are few men in English public fife whose speeches are always worth reading, and fewer still whose avery ntterance deserves attentive etndy. Mr. Balfour belongs certainly to the former and probably to the latter clare. His remarks in the recent dahate apon the Education Department Inchish a case in point : and we make no apology for veproducing at length that portion of them which concerns India, more than ordinarily now while the Public Services Commission is slowly proceeding with its labours. The competitive examination is the ongine which bas officered India in the bigher branch of Government service since the Mintioy. and has therefore come to be the criterion by

foor does not share the enthorism of those who think that the heat all round man can be found by the machinery of the examination room. Superstitione,' be truly observed, 'are very apt to grow around parts of the policies which we adopt, but I should like to hear a really good commentary on nor system of competities examinations. The hen'ble gentleman who has just ast down described the inscriptions of bocour not no in elementary schools recording the names of these who have successfully passed easminations. Ask any parent-I do not cars from whatever class he may be drawn-who has a suo at a Secondary school or a University, what he most deaires, and the enswer will be, " Succesa in examinations," and so it goes on. I do not deny that in certain respects easminations, and even rompetitiva examinations, are en absolote necessity; but I think we have got into the hebit of talking of that which is an anhappy necessity as if it were an admirable institution. Examinations are really most soul-killing justitotings. I believe they put the human miod abenletely in a errorg position with regard to knowledge. I believe they are very bad for the teacher and very bad for the tought. You bear it said "So-and su is a most admirable echool and has the best teacher ever known." The question is seked, "On what ground ?" and the reply is that a certain proportion of his schulers get anob a number of eahibitions or whelever it mey be. That end that slone is the test by which we mearore the merits of the system and the results upon the child or young man end the benefit to the country. I believe it to be wholly and niterly wrong from begioning to end. I em quits aware that some of the praisers of the old eyetem, who say that we gut better men in public service and elsewhere in the old times when there were not these violent competitions, exeggerata greatly; but do not let the Committee believe there is no truth to what they say There is some truth in it. We all know, and if we took the trouble we should all know more of the manner in which you sap the vitality of the young and make them so admirably adapted to pass rxamications accessfully that, when the necessity to pass tham la over, they are adapted to do nothing else whatever. I think those who criticized our ordinary method of education in the old days saw the daugers of it. In those days there was great justonay; the question was naked, "Is general aducation necessary?" and the auggestion was made that it did not matter. All that has gone.

which indigenous education is tested. Mr. Bal-

State Sovereignty.

JUNE 1913.1

Dr. C F. Adams (Harvard University), Lecturer on the History and Institutions of the United States of America at Oxford University, delivered the fourth and concluding lecture of the series at Oxford He referred to the applied of which he treated in his first lecturethe American form of local self government known by them se State sovereignty Great Britain had for years, he might even say for generations, been wrestling with the Irish question Ireland, se they in America had sofficient cance to realize, had for centuries been a restlese, discontented, and et times unruly portion of the United Kingdom , it was so still, end they were now considering sod proposed apparently soon to enact, a messure designated Home Rule Following upon the War of Secession in America there was a scotion of the conntry seething with discentent, there were a spirit of restlessness, with acts of violence and ontreges on individuals This was only 40 years ago , to-day peace, concord, and good fellowship reigned throughout the country Paredoxicel as it counded, the remedy for the ille consequent on the war was found in a recourse to the system which had caused it. The prioriple of State sovereignty applied in its extreme form in practice led to the trouble, but 15 years later that come principle in its proper form, now known se Local Bell Government, or, in other words, Bome Role, brought to a close the purest and disturbance which naturally spened from strife In the result, historically worked in their case, was there a lesson heneficially to be studied by Great Britain in disposing of the issues still confronting it in Ireland? There was the evidence, among others, of Dr Russell, The Times Crimeso Correspond ent, that the hate of Calt to Saxon, and the contempt of Sexon for Calt, simply paired and graw expressionless when compared with the contempt and hate felt by the Sonthron towards the Yankee anterior to the Civil War and while it was in progress But it was all over nowancient and forgotten history Nut one men, he mads bold to essert, could in all America be found gravely and dispassionately to advocate a recorrance to the policy of force and repression to which a mistaken recourse was bad during the brisf and discredited period between 1266 and 1876

Technical Education

The Seventh Annual Conference of the Associa tion of Teachers in Technical Institutions was opened at Bradford on May 12, Mr P, Coleman,

of the Northern Polytechnic Institute, London. presiding

In his address the President said that at presont teaching was on average ill paid. A fow years ago it was disgracefully paid, and the improvement was only a relative one A technical maistate could not be said to give adequate remoueration if a Principal e salary for full time was less than £500 or a fell time qualified teacher's salary was less than £160 in the case of a man or £120 m the cass of a woman was quite erroneous to suppose that the salary acceptable to the young teacher with little or no experience was a proper recognition of the services of a man of ability who had worked for 20 years The report and recommendations of the Royal Commission on University Education in London showed a biss that could only be due to a complete misconception of the work and standard of the Landon polytechnics In any national system of edocation technical edocation required the most help, if it was to be placed on e proper basis and wee to be able to fill its proper functions in the national economy Perhaps the grestest need in the Eoglish manufacturing world to-day was the realization of the necessity for a coorse of training in a technical college as a praliminary to ancessful work in the direction of industry The need was being realized more and more, and he hoped the time would soon come when employers generally would restize that et was good humness to send their apprentices to technical institutions doring the day for a limited number of periods in the week If the nation was to he an edocated nation a post elementary education must be the rule and not the exception A farge extension of the system of jonior technical schools was sheclutaly necessary if, under modern conditions English industry was to continue to be carried on by skilled and totall gent laboor.

Culonies in International Law

The first of a coorse of lectures on Colonial problems organized by the University of London, Kung's College, was delivered at King's College, the subject of the opening lecture being "The Colonies in International Law, and the lectorer, the Roy Dr T J Lawrence, formerly Deputy Professor of International Law in the University of Cambridge Dr. Lawrence, in the course of his lecture said the position of the Colories in International Law was full of difficulties and aven of danger in the foture, and was likely to impose a heavy tax on the wiedom and good.

will of both rulers and people. In connexion with the question of nentrality be leid it down that the great salf-governing Colonies could not invoke the principle of limited liability. Io wer all peats of the Empire must sink or swim together He expressed much sympathy with the school of political thought which has eriseo more prominently in Canada, which objected to being obliged to speed their blond and tressure in any were which do not effect their rights and interests, and which they might hold to be morally indefensible. Hence aross the disposition to claim that their armed forces should be entirely under their own control, and he did not think Great Britain disputed that. But neutral. lty and helligerency were functions of saversign States. A Power could no more be neutral in part end belligerent in part then a man could be married in part and single in part. No foreign country woold recognize any such in-and-out arrangement. If ever an ettempt was serioosly made to oreste e corious race of international entities we should be British at one mument and non-British at the next. They might be cortein that it would breek down beilly. If some emell centrel body goold he crosted on which served together the British Prime Minister and the Foreign Secretary for the time being, elong with representatives of the Ministry of the day in each of the great self-governing Dominions, it seemed to him possible that the great democracies coocerned might be induced to place in its hands the momentoos issues of wer, peace, and nentrality. If this development of a new organ to perform this most important function ever took place, every wer would he en Imperial wer in reality on well on in name, and therefore no idea of an attempt to keep optaids it woold ever arise in any of the political entities whose representatives had agreed to make it.

Literary Remuneration.

At the entuel dinner of the Royal Literary Fund, held at the Savoy Hotel, Lundon, Lord Carzon spoke on Literary Rampneration, from which we take the following estract:-

He was not going to ergoe that literatorn was a grossly underpaid profession, although when he compared it with the emoluments of come others he felt s passing qualm. The remnuerstion of lawyers and doctors was stable and secura-Not so with literature. Literature gave its great and splandid rewards, but they fell to a few-Literature also had its great, diesstrous, and pitiable failures. The fond did not exist for copporting correcognized genius. But outside

the megic and irresponsible circle of genius there were a number of men and women who sometimes in the accident of life etumbled and fell by the way. Some of them had chosen a wrong vocation, and others of them were broken by ill-fortons. Some were only temporarily enbmerged and required only a helping hend to lift them no to dry land. Those were the cases that were taken in hand by the fund.

Some ominant persons had held the view that poverty was the propelling force of literary genius and had started the emezing thesis that narrow means were essential to great literary productions. He declined to admit that there was any stimulas in poverty or any iospiration io secular. Voltaire heed happily for bimself in days before Merconi chaves, but Voltaire made a very good thing nut of several Government lotteries. He speculated largely and soccessfully io the core trade, and he made a good deal of money out of ermy cootracts. He had no doubt that had Voltaire lived nowedays there would have been & House of Commons Committee sitting on him. But, nevertheless Voltairs wrote with the tonguo of men and of angels. According to Lord Rosebery they ought to find a Luzarus in every niche of the temple of feme. It eeemed to him, es regarded literary productions, that the rich men and the poor men were in much the same condition.

The Future of Poetry.

Mr. Edmond Goese delivered a lectors on "The Potors of English Postry" before the English Association, London, on May 30. Mr. John Bailey was to the chair.

Mr. Gozse said that the principal danger fo the future of poetry seemed to him to rest to the necessity of freebness of expression. With the esperabandent circulation of lauguage year after year, week after week, the possibilities of freshness grew carer and rerer. The obvious, simple, poignant things seemed all to have been said. Each generation was likely to be more preoccupied then the last with the desire for novelty of expression. Accordingly the sense of originality, which was so fervently demanded from every new school of writers, would force the poets of the future to sweep away all recognized impressions. He thought that in consequence the neteral oses of English and the obvious forms of nur speech most he driven from our netinnel poetry. In new generations there was likely to coor less description of plain meteriel objects, becomes the supert of these had siready received every obvious tribute. So also there could hardly fail to be less procue enumeration of the primitive entired amolices, because that all had been done siready and repeated to a staty Destry as an art, no one chape or enother, would scaps from the hankruptcy of language, host is would only be at the cost of much that they as present admired and liked that the continuity of the act of verse would be preserted.

He expected to find the madern poet accepting more or less consciously an ever increasing sym bulio subtlety of expression. In his anxiety out to repeat what had been said before, and in his horror of the trite and the apperficial, he would achieve effect by wrapping the truth in darkness The domain of verse had been perestently narrowed by the meuramos of a more and more powerful and wide-embracing prose. No ode or threnody could equal to vibrating passion Captain Scott's last testament The poetry of the fature was likely to be very much occupied with enhaects and with those slone, which could not be expressed in the press of the best adsted newspaper, and he believed that the closing up of the postic field woold isolate the post from his fallows That wealskely to lead them to hand themselves mora closely together for motual protection He also thought it very likely that sexual love might cease to be the predominant thama in lyrical postry. The postry of the futura might not improbably become more and more drematic although perhaps by a series of acts of deficits creation rather than as the result of observation which would be left to the even increasing adroitness of the hrilliant master of our prose

THE UNIVERSITIES

We are asked to publish the following —
No 2133 SENATE HOUSE,
500 May, 1913

From
John J. Hensman, Esq., Ba.,
Manager-in-charge,

Office of the Regulear, University of Madras

To THE PRINCIPALS OF ALL APPILIATED COLLEGES

I have the human, by the direction of the Syndicate, to inform you that the Regulations of the General Medical Connect in Great Britain, regarding the examinations recognized as a sufficant test of preluminary education in the case of study, require that each such students entering poon medical courses of study, require that each such student shall have pessed the qualifying eximination on a classical language. The Gonocil has under consideration the resiston of its Regulations and in norrespondence on the subject with the Syndheste The Council has expressed its intention of accepting the Intermediate Examination in Arts of this Burrerity as a qualifying examination in the case of students rotering upon medical studes primited that such tradesit has skirn a dissortior or classical circular forms of the students are stated at the state of the students and the state of a classical or classical circular Group, and have satisfied the Examiners therein.

In two of this proposal of the General Medical Council, Prompsis of Arts Colleges are advised in ware their students that those who wish in enter upon the medical career must take up the study of a classical or classical oriccital language for the Intermediate Examination. It is improbinhe that the Council will grant any concessions on this point in the case of students commencing their intermediate, course of studies during and after the scademy care 1913 14.

> J have the honour to be, Sir, Your most obedient servent, JOHN J HEVSHAN,

Manager in charge,
No 2792 Series Nove.

21th June, 1913,

JOHN J. HOSOMAN, ERQ, NI.

Manager in charge,

Office of the Registrar, University of Madras.

THE HEAD MASTRES OF ALL RECOGNIZED

 qualifying examination in the cree of students entering upon medical studies, practised that such students have taken a classical or classical oriental language either in Part 11 or Part 111 (Optional Group iii) and have eatisfied the Examiners thereto.

In view of this proposal of the General Medical Council, Principals of Art Colleges have been drived to warn their students that thore who wish to enter upon the medical curse must take up the study of a classical or clavical oriental language for the Internediate Eximation. It is improvable that the Gouncil will grant any concessions on this point in the case of a student commencing their latermediate course of studies during and after the actioning resy 1073.44.

As it will be apparently impracticable for a Secondary Schoolisating Centrata Holder or a Matriculate to take up the study of a classical orclassical oriental language sibbs in Part II or Part III of the Interm-dute course unless the has studied the language uturing his echool course and, I am directed to intite your attention to this matter and to require you to be a good as to give who may latend eventually to enter upon medical courses of taking.

> I have the honour to be, Sir, Your most obedient servant, Jour J. Hensman, Manager-in-charge,

M. L. Degree Examination, 1913.

Banca IV.
Pueganottam, Kaza No. 12. Parced III class.
The rest falled.

BUANCHES I AND III.

Diploma for Astronomy.

THE Madeas Government have communicated to the University of Madeas the offer of a medal and diploms by the Maxison Astronomical Society to any astronomer who discovers a comet.

M. A. Degrae Examination, 1913.

Branch I :- Amrita Reu, Kernad, III class. Krishusawami, T. K. III class. Matthrishusen, S. III class. Narasimbarasphavechar, Andaporam, II class Ramaswami, T. M., III class. Srinitasa Rau, Chickbalapur V. III class. Vaidyausthan, L. S. II class. Bernett IV (Pattoopert):—Adisebaiya, Vernana P., Ill class Kamewara Ras, Sirak III class. Rangawami, G., III class. Sankundi, Petkappersyl, III class. Satyaparayaman, Jayant, II class. Styanna Satel, Valireti, III Jayant, II class. Styanna Satel, Valireti, III Class. Siraraman, P. S., III class. Subramanyam. P. V., III class. Soyyanarayanan, Satalor S. I class.

Beanch VI. (Laris) Balasigam, Samuel, Ill class. Kaupappa Uchil, Ill class.

B. A. Degree Examination, 1913.

Sacoap Laxorage Division:—lat class—9; 2ed class—126; 3rd class—95.

Basecn 1: ist class-2; 2nd class-22; 3rd class-38.

Bancu II A : lat clara-1 ; 2nd eless-17 ; 3rd class-35,

Beanch 11 B : 2nd class-1.

have peased.

Bassen III A : 2od class-2.

Banco III B: 2nd class-1.
Banco III C: 2nd class-2; 3rd class-4.
Banco III D: 2nd class-1; 3rd class-3.

Branch IV: let class-1; 2nd class-24; 3rd class-33.

Beauch V: let class-1; 2nd class-21; 3rd class-101.

Baskon VI: 1st class-3; 2nd class-9. Pratiminant Exotien Landdau: All except 10

B A. Degras Examination , 1918. (New Regulations).

Part I: let class—9; 2nd class—270.
Part II: let class—1; 2nd class—25.
Georf II A: let class—4; 2nd class—35.
Georf II B: let class—2; 2nd class—6.

Gaour IV: lat class-2; 2nd class-2. Gaour IV: lat class-3; 2nd class-all except 10.

Gaour V: 2nd class-144. L. T. Degres Examination, 1913.

All pound succept 14.

Intermediate Examination in Arts, 1818.
GROUP I: 1st class—105; 2nd class—179.
GROUP II: 1st class—10; 2nd class—48.

Grove III: 1st class-83; 2nd class-349. Matriculation Examination, 1915.

I CLARS-5; II CLARS-16; III CLARS-27.

CALCUTTA UNIVERSITY

A meeting of the Sensie Hering
A meeting of the Sensie Herse, College
Squere The Hon Sir Asubah Mookerjee, ViecChaucellor, presided and there was a fair attent

aucs of Fellows.

The Scoate accepting the recommendations of the Syedicate appointed the following gentlemen as University Reeders in the aubjects noted

against their names tDr. Penl. Vinogradoff, Corpus Professor of
Jamespradence in the University of Oxford on
"Kuship in Levit Lew".

Professor Hermans Jacobie, of the University of Bonn, on "The Theory of Iodian Alankar"

Mr. S R Bhandarker M A, on "Introduction to the Study of Indian Epigraphy"

The Sonete re appointed the following gentle mon as University Lecturers at Bankipore for two

years - Prof Jadu Nath Sirker to History

Mesers C Russell and A F Horne in Lon-

The Sensia resolved that in addition to the allination already greated to the Cotton College, Gobatt, it is father affiliated to the following standards and subjects—II A. Standard—Honora in Feglish, Sockerit, Philosophy, Vathems lies, History, and Chemistry II So. Standard—Honoraries and Chemistry II So. Standard Milliand Chemistry and Chemistry Mission of the I A. Chept. Spikat, in History and Physics to the I. A. Standards and Its of Poglish, Varancolar Compositor Mathematics, Chemistry and Physics to the I. So. Standard.

The New School Final

It is rumoured to the Prese that he new Director of Pablic Institution proposes to do swey with the Matricelation I semination ander the jarisdiction of the University, School Fical Figure 1 and 1 a

Matriculation Results

The Calcute University Metro elation I semination results here been published and it is gratifying to note that no fewor thus 50 per creaof the candidates have come out accountal, the total number being 6 937, of whom no lawer than 4/93 were placed in the first division.

BOMBAY UNIVERSITY

Senate Meeting

A Meeting of the Senate will be held in the

Sir Cowsess Jahangir Hall of the University on Friday the 4th July 1913 at 5 45 p.m., whon the following adopted will be discussed— (1) Assignment of Follows to Faculties, (ii)

Alteration of the dates of commencement of the First and Second LLB Examinations, (iii) Amendment of Osneral Regulation No 46 consoquent on the institution of the Degrees of Bache lor of Commerce, Master of Science end Doctor of Hygiens (iv) Academic Costume to be worn by candidates conking admission to the Degrees of Bachelor of Commerce Master of Soisnee and Doctor of Hygiens, (v) Amendment of the Regulation regarding the transfer of students from one College to another (vi) A proposal to so modify the standard for passing the Matri celetion I samination se to permit a candidete who tony fail in one subject only and who may outain an aggregata of at feast 65 per cent ut the total marks obtainable to pass the Examica tion on the recommendation of a majority of two therds of the examiners

ALLAHABAD UNIVERSITY

The Registrar of the University of Allahabad has notified thei, provided the Holi Festival does not fall on any of these dates—

(1) the Intermed etc end the Metriculation Framestione of 1911 will be beld on Monday, the 16th Blarch and following days, beginning at 10 Lu each day, one paper as fer se possible being given deily in the Intermedieta Fremina tion, and two papers daily in the Blatriculation LEamleation , (a) the Degrees (Arts and Science) semications of 1914 will be held on Monday, the 30th March and following days beginning at 7 . m rach day, tue paper as for as possible being given delly, (in) the Previous and Final LL B and als LLM Fremmetions of 1914 wift be held on Monday, the 27th April 1916 and following days, beginning at 7 a w each day, one paper he fer as possible being given daily: (17) the Lar I samuation of 1914 will be held on Monday, the 6th April 1914 and following days, beging at 7 a.m rach day, one paper being given daily.

The delea for the Degree Practical Framing-

Examination Restains

The results of the recent exeminations of the Allahabad University have been published. In

the M.A. Final, out of 52 students one was disallowed and of the remeinder four have passed in the first division, 11 in the accord division, and 21 in the third; while in the Pravince 53 out of 126 have been successful-two in the first, 14 in the second and 37 in the third division. In the M Sc, Final 16 have passed and only one has been placked; of those who have passed, 5 are placed in the first division, 4 m the second, and 7 in the third. Ten out of 12 students whn est for the M. Sc. Previous ere declared in base pessed, three in the first, one in the second and six in the third division. Out of E90 candidates for the B A. Examination, 9 could not appear; of the remeinder two have passed in the first division, 81 in the second and 258 in the third. Of the two first division students one is a lady. Miss Mand Annie Keogh of Mussooree. At the B. Sc., out of 170 students unn was disallowed, and of the remainder 8 have been placed in the first division. 37 in the second and 28 in the third.

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LONDON UNIVERSITY.

A Chair of Chemietry.

At a mesting of the Secants of the University of London on Shap 21, the Visca-Chanceller (Dr. W. P. Harriogham) presiding, Dr. George Barger wat appointed, as from Cotober 1st arts, to the University Chair of Chamistry, tenable at the Royal Hollowy College, with the actase of appointed technary. Dr. Barger best hold point appointed technary, Dr. Barger best hold point Research Laborated seeds and the Wiscoms Research Laborated seeds of the Chamistry, and has been also 1909 had of the Chamist Department of the Chamistry Chilego.

Dr. McClare, addressing the University College (London) Gould of Graduates, asid that "the edocational awakening of modern England had owed out a little to the Matricolation Examination of the University of London."

Sir Philip Maguas, spoks on the Baport of the Bayel Commissioners as that University at London from which the following is an extract:—Our University is and must remain unique, for she and the commissioners of the commission of the second of the commissioners of the commissioners of we cannot hope to attain to the perfect ideal anguested in the Commissioners Report by the andeavone to reconstruct it according to a Central as any other model. Feronally, there is anching to which I take greater exception than our reducations of the commissioners of the commissioners of the commissioners of the commission of the commission of the second of the commission of the commission of the second of the commission of the commission of the second of the commission of the commission of the second of the commission of the commission of the second of the commission of the commission of the second of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the commission of the commission of the second of the commission of the c

But when I see the vast number of eager atadents who come here appnelly to receive the reward of their diligence and progress in the search after knowledge; when I review the long list of amineut teachers under whom so many at them have studied; when, too, I recall the contributions to the advancement of science and learning which proceed from nor research departments, and the names of the distinguished men and women, now living, who look with pride and estisfaction to this University as their Alms Meter, I must nwn I fail to recognize our University in the fundamentally detective inatitation described in the pages of the Report." Still, it is due to those who have devoted so mach time and patience to the preparation of that Report that we should enosider it free from prejudice or bias, with an expect and real desire to profit by it, and to accept such of its proposals. as make for the wider and more efficient training of nor citizens and are at the same time compatible with the hest traditions of our University,

A PATNA UNIVERSITY.

The Government of Bibar and Orisea have issaed the followlog Remintion, deted Banchi, May 19th .-

The Government of India have, on saveral occasione, explained the occaseity which has orienn for eircumscribing the limits of Universities in India and the destrability of forming more numerous cantres in which the full advantage of the teaching and residential system of University life may be enjoyed. In November last the Local Government informed the Government of Indie that a strong and growing demend had arisen for a asparate University for the Province of Biher and Orises and that they proposed to constitute a Representative Committee with a view to formulating a definite scheme. The Government of ladia baving assented to the adoption of this course, His Hannar the Lieutenant-Governor announced, at the menting of the Logislative Conneil held on Fabruary 12th, 1913, that the quastian of establishing a University at Petna with the fullast possible pravision for teaching and residence was under consideration, and that a Committee would be appointed to enquire into and report on the whole enblect. This announcemant was received most favourably, and a cordial desire to co-operate in the execution of the project has been freely expressed on all sides.

The Licetenant-Governor is Council is now pleased to appoint the following gentlemen to frame achema for the establishment of a University for the Province of Biber and Oriess -

Mr R Nathao Prosident, the Hon. Mr Madbu Suden Das thu Hon Khan Bahadur Servid Mubammed Fakhr ad din , the Hon Ras Sheo Shenkar Sabey, Bahedur the Hun Bahu Dwarke Neth , Mr. Soryid Annul Hads Mr. A. G Wright, who will afficiate as Director of Public Instruction during the obsence on leave of the Hoo Mr N L. Hallward Mr W A J Archbold, Principel, Decca College Rossell, officiating Principal, Patna Coffage , Mr. V H Jackson, Professor of Physics, Patus College, Mr. K. S. Caldwell, Professor of Chemietry, Patus Cullegu, Mr. Sachidanada Stoba the Rev. S L Thomson Principal, St. Columbae' College Hazaribagh , Mr D A San Principal, Riber National College, Bankipore Mr P C Tallegte will not as Secretary to the Committee

The Lieutensot Governor in Cooncil hopes that the Hon Mr. N. L. Hellwerd, M. A., Drector of Public Instruction, will, cottle his departure on feare, give the Committee the benefit of his advice

The Lieutenant Governor in Connoil desirre as far as possible to leave the Committee unfettered in the execution of the important task entrusted to them, and will make only a few observations for their general guidance. The University is intended for the beneat of the whole province and the needs of all parts of the constry end of all sections of the people should therefore, receive the most careful attention Provision should be made for a I niversity at Petns or at some convenient | lace in its trighbourhood, af the teaching and residential type, and for tha affiliation to this central institution of colleges attosted in other places. The schemes both for the control University and for the autornal colleges, should be worked out in fall, and should be accompanied by a financial ratimate auff creatly deteiled to anoble it to be placed before the Government of India. The recommendations should not seve ve any such additional coas to the stadents as would discourage them from taking fall advectage of the fare stics which will be of ered

The Committee are enthresed to count's any eathernies whose selecture it's may reed and the fauntement (forence in Council tranks that all persons whose help may be thus anseked will be ready to afford it.

The report of the Committee will be published and cormisted for comment and advice before any definite and on is taken.

TECHNICAL EDUCATION.

Trreweller Torics

[The Editor invites control utions on Topics regarding Typewriters]

THE L C SMITH AND BEOS' TYPEWEITER (Continued from last 12242.)

At the end of the line the carriage is returned and the specing derice is operated with one movement of the right bend it is not processary to raise the left hand from the keyboard nor to cross the right over it to make the return As the carriage moves back and forth without sticking or binding it is important that the efect balls on which it ruos be kept in the same relative position not creeping at any stage of thu journey The graced ball retainer above referred to keeps thu balls at an equal distance from each other making the carriage easy moring yet firm to the extent that even at his extreme limit of trevef it is rigid and on-hakable an important featore, as the carriage regulates the type impres sion on the paper. Here too the system of ball bearings perfects all the movements and ensures eech letter in ite place

Another feature of the machine coder notice is a dense for preventing the battering of the type Olten an eparator will sinke live or more lays at the one time is forcing and the private prevents on the private prevents on the private prevents that effect of the typelar prevents that effect which has mached the treat of the typelar of the typelar which has mached the treat of the typelar of typelar of the typelar of the



Two printing por time of the bi-chrome ribber,

as well as the stencil throw-out, are controlled by a a bep piaced to the key-board as the leftent the tabulator spacebar. By the simple manipulation of a key, either coloured the ribbon say be used, or the ribbon may be placed where the type cannot tooch it, as that a duplateing stencil may be cut. The ribbon can be post on without tools of any kind, and without using the handa. It reverses sutematically, without merassed tension or strain. Like the tabulator, back-spacer and other devices on the machine this part too is insulting and its remaining the controlled of insulting and its remaining the properties of insulting and its remaining the controlled insulting the controlled in the controlled insulting insulting

With regard to the typebar golds, its object is to present unit due to vibration when two un more typebars are forced to the ceutre together and coilide. An actuation on the typebar entait the golds, just before the type impresses the paper, making blaring or trepebar spacing inpossible. The typebar guide is else a safe-guid agoint acceleratel strokes up two keys, and the defects that result by coiliden or passing all typebars. East us no of the devices in the adjustment of the coiling of the coi



A MECHARISE BOOK.

hir. F. K. Ramasawy Iyer, A. C. L., of 10, 28-plannia flow, Midra, has just published a very neeful booklet for the use of operators and swores of Typewriting machines. The booklet desistanterly with the mechanism of the L. C. Smith & Brock. Typewriter which are now largely need in High Schools, Colleges and various other. Mercautilis and Government officer. The book priced only 3 As. and w would highly recommand it to all people interested in type writing.

COMMERCIAL SCHOOL AT BANDALGER.

The Government of Mysore has senctioned the opening of a class in the Commercial School at Bangalore to teach printing. The bours of attendance will be made convenient for the class

of pupils that may seek admission to it. The Sepernotendent of the Government Press has instructions in tespert any private press welcoming his assistance, and to offer engagestions in view to improving such establishment. The Government are also prepared to consider the question of providing for higher instruction and training in the several branches of the Art of typography.

OXFORD DIPLOMA IN COMMERCE.

At hat even Ottord University has paid house to the commercial age by receiving to establish a diploms " suitable for persons intending to prose a beniese career," though the roting was only 35 as against 26 on the other side. Mr. P. E. Mistheson, Fellow of New Collegs, in moving the adoption of the preamble to the states, with.

In the last few years there had been increasing damands upon both Oxford and Cambridge for men who had taken a University course for business. A University reducation alona was not going to qualify a men for husiness, but it was huped that for e certain number of men it was desirable to make the study of economics and political science such that when they got to their business they might look upon it in a proper way and with some scientific knowledge of the groundwork on which it was based. It wee thought proper that there should be some edentific study of the principles of banking, accounting, and the law uf contracts, and also for a diploma of this kind that the student should be familiar with et lesst una modern languagn besides bie nwit-A course of the kind was substantially a course which would give a man a really liberal education for the two years in which his was engaged upon it, and would give him a good deal of information on entering the business world.

The President of Corpus (Mr. Casa) strongly opposed the motion in a speech in which is decaded that Oxford might eventually become recibilities; body and appressed his strong or the control of the Corpus counting and foreign axis basing, accounting and foreign axis based, as beauting, accounting and foreign axis based of the control o

Reviews and Protices.

ENGLISH HISTORY, ILLESTRATED FROM GRIGHTAL SOURCES, 1715—1815, BY H E. ICALY, M A. (A & O. BLACA) 2s

This is the latest solume added to the excellent series of "source" books to English History poblished by this enterprising firm Every History teacher of the present day feels the necessity for these supplementary reading books to stimulate thought. to avoid mere memorizing and to make History teaching of the greatest possible value by indocing the pupils to take an active share in the process of working mental exercises The History of the 18th Century is so complex, materials available so abundant that the choice of extracts is serv difficult. Nor is it possible to maintain the continuity in the estrative The suther has there fore rightly chosen only the more important of the events of this period as i the astracte are concentrated on them from different points of view. Few or no reference is made to such leading constitutional facts of the period as the rise of the Cabinet Government, the development of Party Bystem, etc., Even yet there are given in the estracts auflicient premises to allow of a reasonable and reasoning deduction. The present volume will be ni great value to teachers and pupils of the neat School Firel Class who study the Hanoseran period for the apecial portion. Extracts on the Character of the Three Georges, the South Sea Bubbla, Burke's Estimate of Walpole as Minister, the Corruption of Parliament, Pitt in Opposition, Pitt as Orator, Pitt as Minister, the Revolt of the Colonies, the Pilot that weathered the stnem," etc., are sum to make the subject, otherwise dull and mnnotonoos, vary interesting and the teaching attractive

The Junior Regional Goodnerst—The Barrish Engine with its Wordp setting—of J B. Reynolds. (A & C Black) is 4d

MILI J B. Reynolds has expend in the scholast or profession a reportation for the application of reports. But the scholar of the special profession with the scholar of geography in the scholar of the subject scholar of the schola

natural regions and the results of geographical conditions which characterise each are then lootcally deduced. We have seen several books on the British Empire, but what marks out the present volome from the rest in that in the present rolume is presented an outline sketch of the rest of the world This is of great value to form a true conception of the Geography of the Empire The geography syllahus which coofines its attention parely to the British Empire deserves. to be condemned outright Canada for eq, is no geographical out With a geogral view of the whole of the North American Continent it is much easy to understood fully the sarrous geographical phenomena of this portion of the empire. The 'world setting' that is presented in the book will enable the ropuls to link together the sarrous portions of the Empire in a manner that is difficult when each portion is treated as an isolated unit. The salue of some of the British possessions, especially the smaller ones depends mainly on their position with regard to various countries and cannot be rightly appreciated without some knowledge of their surroundings The Empire's commerce to extensive and a knowledge of the chief producing regions and markets of the world is in consequence necessary and a book which attempts all this in a short compass ought to be walcome to teachers The book is profusely allostrated and contains a very large number of smangeth bus equin

A HANDOOK DE GEOGRAPHY, DE A J HER-BRETSON, MA, Pa D, Vol 15 (T, Nalbuy & SDES), 40 61

When reviewing the first volume of this book in the July (1912) number of our Review, we pototed out that that book supplied a long felt went of a work infermediate between the ordinary Flementary school geography and such standard works of reference as Dr. H. R. Mill's International Geographs. The present solume deals with Asia, Australia, Africa and America Throughout the book there is abundant evidence of thoroughoess The physical features of each Continent as a whole se described fully and the description is also cortinuous to enable the student to understand the various parts of the skeleton before studying the circulations and coverings of the earth's surface. The treatment is first regional and next colitical After a ceremi account of the distribution of the charf el mouts of each country, political distators ar I descriptions follow Lesential facts and educationally valuable elements are emphasized. The book is full of maps and diagrams, some of

which are published for the first time. These two volumes by Dr. Herbertson are sure to prove standing works of reference.

We are sorry however to note the vnlume before ns has some defects which it is hoped, will be set right in the subsequent editions. India is very meagrely dealt with and is out of date in some points. A book published in 1913 contains the Census figures of 1901. We have not yet got rid of Eastern Bengel and Assam. The information is what can be got from ordinary text-books on Indian geography.

In fairness to the author, we must mention that what is stated is thoroughly accurate Text-book writers and teachers of Indian geography will get many of their erroneous notions regarding Indian monsoons corrected after a careful study of this book. Speaking of south-west monsoon, Dr. Herbertson says: " From mid March to mid Jone a low pressure area forms over a region of increaslogly high temperatures in Southern Asia. As it locreases in intensity, the Southerly winds awirling loto its centre are followed by the sooth-east trades which pass with a sweep of storms right across the Equator. These whods bring moistore from the Iodlan Ocean which they precipitate on all expused moontain sides and on the plains at their feet from a great distance from them. The change to rain comes from 1-15 Juna. Chudy raioy weather prevails till September. During the cent three months presente rises in Northern Iodia sod the retreat of the south-west monsoon takes place. These retreating currents and cot the morth-east momenon corre over the Bay so as to increase the Medras rainfall (October to December)."

We are amused to read that South India is one of the richest mineral regions of the world, We hope with the author that the nee of electricity may lead to important developments. We note that in connection with iroo mining and industry no reference whatsoever is made to the Tala Iron Works. We are not able to follow the anthor when he says that three-fourths of the people are Hindus or Brahmins and that " Trivandram is the capital of Travancore State wherein education is edvanced for India."

OXFORD GROGREPHIES-A OCCURATED OF THE BRITISH EMPISS-IIT A. J. HEADERTSON AND R. L. TROMPSON. (CLARENDON PERSS). 2s. 6d.

half of it is taken up with the geography of the mother country. India is given less than 20 pages and the account given is very meagre and of an elementary character. Canada, Australia and British Africa receive fuller treatment. The treatment throughout is regional. Political divisions are also mentioned and described. The book is thoroughly up to date and contains a number of maps in black and white. It is pleasing to note the historical summary in connection with some of the parts of the British Empire. It would have been extremely valuable if the author had devoted some sections at least to show the hearing of Geography on History.

CONSTRUCTIVE WORK-PUPILS' BOOK, SET II, COM-SIERR WITH GROUNACHY AND HISTORY, BY Ro. J. S. Lat. (Machillan & Co). Book I-4d. Books II & III. 5d. each.

Messrs, Macmillan & Co are dologe decided service to elementary education by the publication of three sets of books no constructive work. There is also a teachera' edition of these books. How much would the Iodian elementary achool teacher profit by these broke being adapted and rendered into vernacular languages! The constructive work soggested io these hooks is of an emicently practical character; the handwork is treated as a method and the exercises which are lotended to supplement the work on the most modern acd approved lices are not only closely connected with the objects to be found to every school but are calculated to train the child on troly educational knee to he active, intelligent and self-reliant. Part I of the hook is closely connected with Geography. The first lessons deal with " Rapid sketching." " Learning to sketch and to use the eye "Look about you every day," stc. The subsequent lessons deal with Scales and distances, plans, measuring distances on the map, plotting walks, angular measurement, simple surveying, contour lines, studying globrs and maps, thermometers, barometers, winds, rainfall, production and trade charts. The lessons ere all carefully graduated and are on concentric lines. The hooks are replets with bluts and suggestions to phserve, to record and to construct. They are also full of apt and anitable illustrations. Part II of each book deals with English History. A number of very interest ing and auggestive historical diagrams connected with each period are presented. It is intended that the children should without any guide lines cot out abapes from coloured paper and pasts tham in an exercise book kept for the purpose,

This book belongs to the series of Oxford Geographics edited by A. J. Herbertson. It opens with an account of the British Isles and nearly

The screenes will be found to give excellent training for the hand end the eye, valuable for the teaching of facts and for recapitulatary lessons. The teachers' edition is apecually valuable as it helps to formulate and carry out schemes of manual work connected with the ordinary ambiects of the school corrientum.

PRELIMINARY ASITHMETIC, DE AUGUSTUS BARRAC LOUGH, M.A. (UNIVERSITY TURGELAL PRESS). Price Is 6d.

This is a well got up little volume of 216 pages and is intended for English papis of ten to fourteen years of ago. The book contains definition, rules, worked examples and exercise and specially useful to candidates preparing for seek examinations as the Preliminary Cambridge Local and provides agilizers work for the pair standard is practically on a value hat an intelligent teacher of a Lower Secondary School will find simple in formation for the teaching of arithmetic in bis class room. The book will also be a valuable addition to the Listary of the School. Was congestin late the printers on the excellent finish they have given to the little volume.

JUNIOR ASITHMETIC (WITH ANIMERS) DY R H.
CROPP, BA, SAVANTH IMPRESSION (THERB
EDITION) REVISED AND ENCARRED, (UNIVERSITY
TOTOMIAL PRESS) Price 29 6d

This volume of 393 pages is meant for the Junior Forms of English Schools and is so abridg ment of Mr Workman's 'The Tutorial Arithmetic' The difficult portions of the higher work are omitted but the order of the chapters and the method of treatment are same The book covers the whole field of arithmetic and also contains chapters on Approximation (contracted multiplication and division) Algebraic symbols (simple equations and problems) and Graphical Arithmetic. The book will take a position among standard Text Books in Arithmetic for Indian Schools if it is only adapted for such use by the introduction of Indian Currency and Tables of Indun Weights and Measures As it is, it is invaluable as a book of reference to the Indian Teacher and his pupil, and as ench deserves a place in the Library of every High School

A SCHOOL ARTHMETIC FOR INDIAN SCHOOLS, BY HALL, STAVENS AND SIMS (MESSES MAG MILLAY & CO) Price Re 1 12 0.

This is a bandy volume of more than 500 pages and as an edition of Hall and Stevenis. 'A School Arithmetic adapted to the requirements of Indian Schools by the Rev Andrew Sims, n.A. of the London Mission with the introduction of Indian Corrency and Tables of Indian Weights and Vassures side by mids with the corresponding British Tables. In the course of this work necessity British Tables of Indian Weights and Vassures side by mids with the corresponding British Tables. In the course of this work necessity amples have been altered in accordance with the periods of Indian students in different Promises

The book in its present form can be safely used as a fext book in any Iodian High School, There are certain special features of the book which give it a unique position in the field of Authoretic They are (1) The method of Ap proximation is carried further than has hitherto been attempted in any other text book of the kend (2) The method of Aliquot Parts (or Practice) is not made the subject of a separate chapter (d) Besides a separate chapter on Simple Graphs grapoical methods are frequently used especially in connection with Proportion and Variation (4) There is no formal treatment of Recurring Decimals or of the Cube Root Cube roots that occur are determined by factorization or by the use of logarithms (5) The use of Four Figure Logarithms is fully explained and illus trated and Tables of Lognithms and Antilogarithms are supplied

We are sore that this hook as at present modified will keep the foremost rank in the field for reserval years. The authors, Hulls and Stevens, are well known to every school boy and this is a sufficient recommendation for the popularity of the present volume in Indian High Schools

GROWETRICAL OFFICE, BY A S PERCITAL, M.A., M.B., B.G., (CANTAR) PRESENT LONGWARS, GREEN & CO.) Price 4s 6d set

This is an excellently got up volume of 132 pages primarily intended for medical students as a test book on the subject of Geometrical Optics for their prehiomary scientific examination. The book also contains all the optics required by an ophthelanic surgeon and is also of some ratue to students of physics.

There are chapters on punholes and shadows, reflection and refraction at plane and spherical auriaces, and leaves Methods, both sunlytical and graphical, for the determination of the Cardinal and the Nodel Points of a thick leng, ore fully explained and illustrated. There is also a reference made to Spherical Aberration. Though the book is not of much value to the mathematician it is we believe invaluable to those for whom it is meant.

TRE S. P. O. HIGH SCHOOL MAGAZINE. The fourth number of the first volume is before us and is particularly interesting, being a double number in commemoration of the 150th anniversary of the S P. G. High School and College. The editorial columns are full of comments un this nulque event in the history of the College, In the article " Our 150th Anniversary" ere found the Historical Resume and the interesting address of Mr. Stone who presided on the occasion of the anniversary and those who care to read these will readily concur that the institution deservas to be prond of a record of usefulness and prosperity for a cectury and a helf. Deman Rahedor T. Desika-charger, a deroted but uncatentations atudent of acciect South Indian History, has contribated a well-thought-out paper on " The Coins of the Choles," which contains many raw facts of an authoritative character. The articla on " Seetha-the Ideal Woman," is a critical atody of his paragon of virtue. The " Basket of Worde is continued in this number and there is good deal to amora the reader on the word Doctor. Altogether this number maintains the high Jerel of axcellence of the previous issues,

PUBLICATIONS RECEIVED. Geometrical Optics, by A. S. Percival, M.A., M.B., B.C. London : Loogmaos, Green & Co.

4s. 6d. George Eliot's Siles Marner, by T. Cuthbertson Jones, B.A. Bombay: Onford University Press. Ra. 1-8-0.

Preliminary Chemistry, by H. W. Bauent, M.A. London: University Tutoriel Press. 2s. 6d.

Will the Brahmo Samaj Last, by P. C. Mozoomdar, Calcutta: The Brotherhood, 82, Harrison

The Children's Shakespears-Scenes from Julius Cassr. London : Macwillan. 4d.

Piers Plowman Histories, Junior Book No. 1, 94.; No. 11, 1s.; No. 111, 1s. 3d.; No. 1V, 1s. 6d.; No. V. 1s. 8d. Londoo : George Philip & Son, Ltd., 32, Fleet Street,

A General History of the World, by Gener Browning, M.A. London: Longmans, Green & Co. (Edward Arnold). Se. .

Indian Educational Hotes. MADRAS.

Orders Educational.-The Opvernment are pleased to sanction a grant not exceeding one-half of the actual expenditure nor Rs. 4000 towards the cost of construction of two blocks of dormitory and retectory rooms attached to the R. C. Boarding and Training School, Trichinnpoly, anhject to the following conditions :-

(1) that in carrying out the work the enggertions of the Chief Engineer in his note ere adopte and (2) that all the conditions prescribed in the Grant in Aid Code have been duly complied with,

2 On the above conditions being inifiled the great will be paid as lands become explishe.

The Government are piessed to senction a great our coverament are pleased to section a great oot exceeding one-ball of the actual expenditure, nor fix. 4,375 towards cost of the certain calan-sions end emportements to fit, Joseph's Industria School, Tandirenem, aubject to the following condi-Lioge .-(1) that in corrying out the work the sug-

gestions of the Cuist Engineer in his note are adopted and (2) that all the conditions prescribed to the Grant-in Aid Code have been duly complied with.

2. On the above conditions being fulfilled tha grant will be paid on funda beenme evailable.

The Government are pleased to senction a great not exceeding one-half of the actual expenditure. nor Rs 7.229 towards the cost of construction of a third storey to the building occupied by the S. P. G. Hugh School, Trichinopoly, andject to the following conditions :-

(1) that in carrying not the work the angections of the Chief Engineer in his note in G. O. No. 648, Educational, dated 12th November 1910, sre adopted ; and (2) that all the conditions prescribed in the Grant-in-Aid Gods here been duty complied with.

On the above conditions being fulfilled the grant will be paid as funds become available.

The Government ere pleased to senction a grant ot exceeding one-helf the actual expenditure, nor By 12.759 towards the cost of construction of

- building for the Gauspathi Secondary School, Mangalore, subject to the following conditions -
- (1) that in carrying out the work the angges tions of the Chief Engineer in his note are adopted, and (2) that all the conditions preactibed in the Grantin Aid Oods have been duly complied with
- 2 On the ebyre conditions being folialled the grant will be paid as found become available 3. The Government approve the action of the Director of Public Instruction in permitting the achool subtorities to purchase the site in anticipation of the sanction of Gereroment to the grant.
- The Government are pleased to assection a grant not exceeding one half of the actual expendance on Rs 4,300 towards the cost of construction of an additional building for the High School at Gogalassemodrum, Tipnerally district, subject to the following conditions.
- (1) that to carrying out the work the suggestions of the Chief Engineer in his note are suppled, and (2) that all the conditions prescribed in the Grant in Aid Code have been duly complied with
- 2 On the shove conditions being fulfilled the grant will be paid so foods become statistic
- The Government approve the proposals of the Director of Public Instruction for the distribution of the special greate of four lakes cod Rs 30,000 for the equipment of eccordary sod elementary schools, respectively.
- The Government are plassed to delegate to the Principel, Government Training School, Rajab-mundry, the power of exempting candidates for admission to the school from the age limit prescribed by rule 114 (2) of the Misdres Admission Rules
- The Government are pleased to sacction a grant not exceeding one-helf of the actual expenditura nor Re 7,400 towards the cost of construction of warden's and screening the cost of construction of warden's and screening the cost of the following the cost of the cost of the following the following the cost of the following the cost of the following the following the cost of the following the cost of the following the following the following the cost of the following the
- (I) that in carrying out the work the suggestions of the Chief Engineer is his note are adopted and (2) that all the conditions prescribed is the Grantin Aid Code have been doly complied with
- in Aid Code have been doly complied with

 2 On the showe conditions being fulfilled the
 great will be paid as funds become sveilable
- Under section 21, sub-section (4) of the Indian Universities Act 1905 the Governor in Council is pleased to suchion the further silitation to the University of Madras of the Madras Christian College in Branch I-Mathematics—of the B.A (Locoure) degree course

- The Government are pleased to sanction a bull grant not exceeding He 7500 to the Mosençual Gouncil of Salem towards the cost of providing the local coffege with a bestel. The amount will be may from the balance of the lemp grant of 225 lakes sanctioned by the Government of India to Fusance Dapartment better No 228 F, dated 18th July 1912, ander 22, Education for bottler
- 2 The Accountant General will be requested to place the amount at the disposal of the Menicipal Conneil before the close of the correct year

The Government are pleased, as a special case, to anotion a grant ont exceeding Rs 6900 nor the difference between the actual expenditors and the contribution of Rs 5000 promised by the meagament towards the cost of construction of a boatel for the Ohnstran students of the Noble College, Manule plann, subject to the following conditions—

(1) that in carrying out the work the suggestions of the Chief Engineer in his note are adopted, and (2) that all the coeditions prescribed in the Great in Aid Code bays been doly compiled with

2 On the above coeditions being fulfilled the grant will be paid as fueds become available

Under section 21 sub-section (4), of the Indian Universities Act, 1904 the Governor in Council is pleased to section the ferther effiliation to the University of Madras of the Central College, Bangatore, in Group (ii B)—Chemistry—of the B A Degrae (Pass) course.

The Government are pleased to associone grant not exceeding Rs 3162 towards the cost of constructing the Coles Memerial Sundents Home and Boarding School, Kurnool, subject to the following conditions:

- (1) that in extrying out the work the aeggestions of the Chief Engineer to his note are adopted, and (2) that all the conditions prescribed in the Grantin And Gode bays been duly complied with
- 2 Go the above conditions being fulfilled the grant will be paid as funds become available.

The Government are pleased as a special case to associous as additional grant of Rs 1,442 towards, the cost of construction of a building for the St, Mathias' School, Virpery, Madras

In the circumstances represented by the Director of Publa, Indirections the Government are pleased, as a seasal case and in modification of G f Na. 305, Educational dated 19th Norember 1912, to section a grant of Rs. 17500 or one helf of the section appendictor, whichever is less towards the cost of construction of a huilding for the Hindh High Echool Ambistematicans. This grant is sub-

ject to the conditions laid down in the Gaverament Order quoted shove.

In the crammaturers stated by the Director of Pedic Instruction the Government are pleased to increase the maximum amount of the great searchined in G o No, 814, Educational, death 20th November 1911, towards the cost of constructing a building for the Arjanan-1M6614 Alba-reliam Technical and Industrial School, Madras, from Sa. 19695 are no hair of the actual september.

The Government are pleased as a special case to special on a great not exceeding one half of the actual especialistic, of the 1687s, two with the cost of the hostel buildings which has actually been comploied in innection which has desired been completed in innection which has desired been affected, and of the mount improvements and additions thereby achiect to the following condi-

- (1) that in carrying ont the proposed work the soggestions of the Chef Engineer in his ont and adopted; and (2) that all the conditions precessed in the Gent-in-And Code bave been doly complied with.
- 2. On the shore conditions being fulfilled, the grant will be paid as fauds become evallable.
- The Government are pleased to sauction a grannot exceeding une ball of the extual expenditors ar Rs. 29,050, towards the next of construction of a building for the Fore Girls High School as Trickinepoly, schiptic to the following conditions....
- (1) that in carrying out the work the enggestions of the Chief Engueer in his note are adopted; and (2) that all the conditions prescribed in the Groutin-Aid Code here been duly complied with.
- 2 On the above conditions being falfilled, the great will be paid as funds become available.
- In parsgraph 62 of the Report on Public Instruction in the Madras Presidency for the quinquesium 1906-07 to 1911-12 while dealt with the Secondary School Leaving Certificate Scheme, the Director of Public Instruction observed:—
 - "I take his neportnoisy of expressing my hope that heads of clipicar and officials will cooperate with Government and the Department in the reform of scendary deduction which is in progress by usd accepting any certificials which does not afford even the company of the company of the contact of the company of the company of the occuracy to ascertain whather a conditate for Government survive post-curst, and the lancange of the Public Service Novides-ton, 'sofficiant knowledge at the quidant subjects."
 - 2. Too particular attention of all heads of Departments will be drawn to the appeal for an operation with the Director of Public Iostruction to his efforts.

to ensure adequate recognition of the school work doon by holders at leaving certificates. It is ear, diosit feature at the school for the ward at secondary school-leaving certificates at action where the contracter and result of a boy's entire school career in preference in the baro record of his success stays single examination.

Madanapalles Teachers Oonference.—Forten days from the 19th oltima racetion clasers were organised for the benefit of the Elementary School teachers of Madauspeller, Vayalpad and Ponganor Taloks, by the Sub-Assistant Inspector of Schools, Madauspalles Range, Mr. K. Alwar Chetti with the ancouragement of the Assistant Iospector of Schools, Chutges District, Mr. Ragbunatha Charl and with the help of the Supervisors. These classes were held in the Medsuspelles High School premises. Moch neeful instruction was imparted to the teachers on carrons subjects suob as Vernacular, Pross, and Pontry, Surveying, Civics, Hygions, School Gardens, School Museums, Geography, Kindergerten, Arithmetic, Manual Work, Physiology, Official Correspondence, the use of Grammar and Stories and action songe, Object Lessons and Pictures Much interest was roused in the teachers by the most impressive and asheneive lectures of Mr. K. Alwar Chetti, Mr. Vavelkulem Subba Row, Presidency College Telogu Paudit, was requested to deliver a facture to the schere on the necessity for religious and moral instruction in Schools. The meeting weep preside instruction in Schools. The meeting weep preside nor by Mr. Nemil Petabbrrams Eow, 3 As, ex. Derwn of Cochie on the 26th ultimo Mr. V. Subber 1800 became the meeting the and the schools. Row brought hame to the minds of the andleace that without e deep love for the Vernsculer literaturn there could be no love for the country, nor love for une's awa religion. His lecture was most ern-dite, interesting and impressive and abounded with quotations. He made a powerful plee for Verna-cular study and showed how the modern etyle tended tu degenerate, disfigure and discourage a love for Vernscolar literature which simply tolled its death knell. He most pathetically appealed to the audience nut to kill Vernaculers and thus bring ruin upon the country and themselves and the yell unborn generation. The Chairman endorsed the opinion of the locturer and explained how every attempt was being mede to arouse interest in and to revive vernecular study in all its pristing parity and force.

One of the most interesting and editying features of the control o

The recation classes were brought to an end un the 28th ultimo by valedictory speeches delivered by a number of visitors un the importance of the teaching profession. A History Professor — Hr Sauedere MA, of the Chicago University has been appointed as History Professor of the American College, Madura Professor Saunders is said to be a man of high qualifications in History and is expected to arrive about the list of September.

Opening of new schools —The Impretor General Marken, has recome solds the pursues of 18 new primary achools at a cost of Re 22,000 the appointment of additional hands as increase of pay and allowances for the teaching of mesic and needle work in girls echools at a cost of Re 19494 annually, the opening of Kananda Upper Secondary, the Anglo-Vernacium's School at Dara schools at Anglo-Vernacium's School at Dara schools are considered to the providing recruits with higher general culture as eachers for Primary and Middle Schools at a cost of Re 2400 per seniors and the establishment of a Central Bardeng School for Puchams students at Myserica an experimental mesters at a cost in 18 x500. The whole of the Education Committee of the School and the Sch

Tirnvallur High School Day - Speaking a few days ago se Chairman of the Tirnvallor High School Dey, the Hon Mr V S Srinivese Sastri made an interesting an agestion that old boys meeting to getber should think of improving the school under whose roof they mat It slways struck hir Seins vere Santri as on imperfection in the arrangements that no machinery was provided for interest ag old students in the welfare of a school He had known some really useful idees come from those actually unconnected with the management of an institution Old bore who wers connected with uther schools might advantageously be encomited on points that torned op now and then in connection with the management of their old school. They would in most cases his act tated by love for it and not by so worthy jestousy And on the annual school day, according to Mr Sastria excellent suggestion there should be a small conference, as intimate con farence with every gearantee of the proceedings being confidential consisting of the management the staff, and the more refluential among the old boys to thresh out the more important problems and to suggest the necessary reforms.

Idaus)pet High School —A correspondent writes from Udamshpet i—The price dustribution to the stadents of the Board High School Udamshpet to the stadents of the Board High School Udamshpet IU S, prended There was a large gathering The Inaction began at \$15 r x with the reading of the report by High T Kenhrumann of Handmater to the theory of the Property Bull of the Property Bull of the Reading of the Property Bull of the Prope

examinations so district bad also affected detrarely the financial position of the school. The prizes were green away by Mrs. Hemisenwy. Mr. Hemisenwy is has consciously address remarked that the school had on the whole does well considering the disadvantages from which it had been sufficiently to forget the institutions where they had received to forget the institutions where they had received their reducements of culture but to take an active selected in its fators welfare. He ship pointed out he regard increasity there was for a good Students' Hostel to the compensation sustered themselves in the matter temperature to instere a themselves in the matter temperature in suffering the sufficient of the school of the selection of the school of the selection of the school of the selection of the s

Education su Auautapur -At the instance of the Local Sub Ass start Inspector of Schoole and with the section of higher authorities a Coefer ence of Inspecting Officers and Elementary School Teachers was held for five days from the 20th May to the 30th in the Edward Corpostion Hall noder the presidency of Mr Herbert Champion SA, In-pector of Schools 3rd Circle It was attended by all the Sab Assistants and Supervisors and more than 200 Elementary School Teachers of the Anantapur and Gooty Ranges A carefully well arranged programma of work uncluding the axpla nation of syllabuses according to standards |sotures on teaching and model lessons by the Inspecting officers was gone through One of the special fastness of the Conference was the avatamatication of the work of teachers of various cleases to con nection with the teaching of various anbjects under tin schema of studies prescribed for Elementary Schools and in accordance with local requirements Judged from the attendance, the substantial work dune, and the enthusiasm manifested by the assembled teachers the Conference was an negualified seccess for which much nred t is due to the indefatigable energy of the Local Sub Assistant Mr R Krishnaswami Iyengar and the reterest evinced to ibn matter by Mr P Ramannjachari the Assistant Inspector of Schools and the co-operation of the other Sab-Assistants especially Mr H G Krishna Rao of Gooty The proceedings were brought to a closa by a few words of advice by the President who also highly complimented the Local Seb Assistant for the excellent work of a practical nature he had does towards improving the quantity of instruction imparted in Elementary Schools in Apautaone District

Education in Kandikur — For ten daya last month the fical wide Assistant inspector of Schools Mr H Ramachar Ma LT, "discreedly conducted the reacture cleaner for all the teachers in Annalder Talak alm lar to the one he arranged last year for eachers in the Kang et Talak They were held in the premises of the Beard Higher Grade Liemaniary School there and ware attended by over 100 teachers from Board Aided and Unaided Elementary Schools. They were the first of the kind in this range. The Sub-Assistant Inspector with the assistance of the local Supervisor imparted much useful instruction to the teachers on the nest and correct maintenance of the registers and methods of teaching the various subjects of the scheme of studies for Elementary Schools as well as on the framing of syllabus and the work to be done to the Teachers' Associations. Mr Ramecharwith his experience as late Herdmanter of the Government Training School, Bellary, and with his present experience as inspecting officer, of the needs of village aducation, so ably conducted the classes that they appeared to be ministure training achools. The chief subjects dealt with were Vernacular, Space and Number work, Drawing, Elementary Science, general knowledge, recitation and drill, the ntility of school garden and museum, In addition to lectureous these aubjects, the teachers were made to work practical examples which were corrected by the Sub-Assistent and his Supervisor. Model lessons were also given in Vacpaculae Prose and Poetry, general knowledge, etc The chief feators of the lectures was the harmony that the Sub-Assistent introduced between the old indigenous method. and the modern methods of teaching

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The Srirangam High School -The increese of sanction to Rs. 18,000 from Rs 10,000 granted by the Government of Madras to the Spirencem High School towards meeting the building charges bee given naiversal plessors to the Trichinopoly public, as this is a deserving spatitution which has quite a record of emple work done ever since it was elected two decades back. It is very creditable that the institution has gethered round it a band of anthusiastic teachers who not simply content with their nenal aphere of work have been atriving their best to piace appers of work of the sounder and more permenent the institution on a sounder and more permenent beats. Mr M. C. Rejagopai Naido, e. J.-T., the Head-Mester has been doing vary solid work in this way and Mr. S. K. Mathenbutham Lyor, the first Assistant, took a patrious tonr to Rangeon to collect densitions for the upkeep and improvement of the School. The school authorities have purchased a plot of land on which the school building is being built. It only remains to hope that the achool will bays the hetter support and good will of the local magnates.

A Hostel for Dharskota -The interesting coremony of laying the foundation atone of the George Coronation Hostel, in connection with Sri Rajab's Secondary School at Dharakota, was performed by the Collector of Ganjem A report of the working of the echool was read by the Head Master of the school, followed by recitation of versea in Uriya. The Handle the Baja Sahah, the founder of the school, spoks of the kind advice occasionally given by the Collector for the improvement of the school. The Collector then gave away the prizes and medals to the studente for their proficiency to different subjects. This done, the Collector proceeded to lay

the foundation stone and declared it well and truly laid. Leatly, the Collector made an impressive speech detailing the charities of the Hon'ble the Government rightly beld him for all the works of penerosity and charity for the people of the district

Contur District Conference -The following Revolutions were adopted at the Guntur District Conference: - Mr. K. Venkatapayya, BA, B.L. of Contur. proposed that the study of Vernaculars be enforced in all schools and solleges Mr. C. Venkatedri in e-conding the proposition explained the arate of the Veroaculer study in schools and that sinds nta never cared to stndy except with the object of passing the examination with a little translation, This was unanimonaly supported and carried. The seat Resolution related to the undeelrability of allowing candidates to write colloquial vernscular in the School Final Examinations since the Teluga language differed in various parts of the Tologu spoken districte. The proposition was supported by Mr. V Rangs Rec. MA, ML, of Guntor. It was opposed by Mr. V. Lakebminarayana Pantolo Garu of Gnutur. He said thet it was bad to chat out the books prescribed for the School Final Examination. However, the proposition was put to vote and carried by an overwhelming majority, Mr. K. Lakebminarayana Pantula Garu epoke apoo tha necessity of sending memorial to the Debt of the Conference of the Conference was not reachigh to the Conference was not reached by the Conference was not reached the Consement of the Consement the re-cetablishment of Training Schools at Gontor and Rejehmundry. Resolutions relating to National Education, Local Sell-Government, were then

____ BOMSAY.

Beroda Library System .- The Library System. which has worked an well in Baroda is to be further developed. A new branch of 'Visual Instruction is to be opened in connection with the Central Library Department at a cost of ten thousand rupees. The object of this achemo in to give 'the benefit of edu cation not only to those who can read but also, and especially to those who are innocent of the art of reading-for the splightenment and entertainment of such by means of the cinamotograph, the magic lautern and the stereoscope,

Indian Actuary and Anditor,-We are glad to learn that Mr. Majordeo R. Tambe, a graduate in Arts and Engineering of the Dniversity of Bombay. has passed Parts I and II of the Institute of Actuaries s zaminations and bea become an Associate of that institute . He served for three years as an Articled Clork to Means, K. S. Alyar and Cona leading Firm of Andriers in Bundary and then proceeded to England to sit it, the resumestance He passed the Intermediate is id Fissi Examination of the Society of Incorporated Accountaints and Andriers standing first in the Honorar Dermon at the former examination. He tooks first class in the Honorar Dermon at the former examination of the tooks first class in precitical actuarial esperience by working as a personate for a year in the office of Mr. and George Kings, F. I. A. a leading actory in London and the consulting of the Bondary Lefs Intersect Co. Accountaint of the Society of the Institute of Actuarious sections and Andriers London. He is the first and only Ledon into the colly person in India, who is both in the thought and a section of the Institute of London He is the first and only Ledon in the the Courty of Incorporated Accountaints and Andriers London. He is the first and only Ledon in the the Courty of Incorporated Accountaint of the Court and the Cour

Growth of Schools - Evidence of the gradual growth of schools to India is provided in the quinquennial report (1937-12) of the Bombay Presidency jost published. From this it appears that the total comber of educational ignitioning of all kinds in the Presidence rose from 13,967 to 16 460, while the number of pupils increased from 720,547 to 922 877. The latter figure represents 3 4 per cent of the total population of the Presidency and 2 27 of its population of school-going age the correspondtog percantages at the commencement of the quioquenosom being 28 and 189, respectively Secondary schools now number 559 with an attend ance of 74,601 echolers, as against 517 with 57,993 echolers in the case of primary schools the advance, as might be expected, is more merked, the number of such schools having risen from 10,482 to 12 7e3, and the figures of attendance from 579 629 to 757,130 During the five years the total annual edocational expanditore, both direct and indirect, from all sources, rose from Rs 1.06,13000 to Ra I,86,17,000, on increase of 28 per cent Of the letter amonnt, provincial revenues contributed Rs 53 98,000, as against Rs. 43 98 000 at the beginning of the period. The total capenditors from all sources on primary education in Bombay is now 5814kbs Towards this, provincial revenues contributed pearly 23 lakha, mostly in the shape of grants to Local Boards and Municipalities

CALCUTTA.

Education in Bengel —The following Notification in polithede to the Oblettin Gastin —A Committee was appointed in 1911 as an experimental to the Director of Public Institution, 1911 as an experimental to Director of Public Institution, 1914, in the selection of drawing books for use in schools and in regard to any other matters toeching on Art in which the Director matters toeching on Art in which the Pilosotion Dispatements concerns to the Committee of the Com

ertuitle score of studer to has recently come under the consideration of Government His Excellency in Council, while recognizing the value of the serwices rendered by the Art Committee to this direction, is nevertheless of the opinion that its nacfolness would be greatly enhanced by an estension of sta bathacto comparatively limited powers and fonotions It has therefore, been decided to strengthen and sularge the Committee itself and to entrust it with increased delies and responsibilities. The Generator in Council is accordingly pleased to direct—(a) that the Committee shall be styled the Art Advancy Committee and shall be constituted as follows —President, the Principal, Unlouts School of Art Members—The Principal David Haro Training College, the Inspector of Schools, Presidency Division, the Inspectress of Schools, Presidency and Bardwan Diessions, the Vice-Principal, Calcutta School of Art, E Thornton, Eq. wal, al, and N Blount, Esq nominated by the Art Gallery, Bahn Gaganendia Nath Tagoin (6) that the duties of the Committee shall be to advise the Director of Public Instruction to regard todrawing books for use in schools, curricola for inatraction in Art whether in special iontitotions or in a Look and colleges for general education, the general question of Art teaching in Bangal Tha Committee will in the first instance hold office for two pasts The Director of Public Instruction is requasted to report each year on the measure of success attained by the Committee in performance of the dates entrusted to its charge. If any vacancies occur on the Committee the fact should be brought to the notice of Coverement for necessary action

Moth Bogol Literary Conference — At the string of the North Sungil Literary Conference Bibe Saccadranath Ray Opcodrory sobmuted report for the last year. Bahn Joycodro Cheedra report for the last year. Bahn Joycodro Cheedra be report to which among other cheedra with the Conference could do is attempt the Faster Alrhoy Bahn amonanced that the Oxford the Conference could do is attempt the Faster Alrhoy Bahn amonanced that the Oxford the Conference Could consider the Conference of the Conference

Historical Scottly—Lecturing before the East India Association, Mr. Winnot Corfield regretted the Society owns; to the case of the activities of the Calentia Historical Society owns; to the exactless drain of the members to England. He advocated the fornation in London of a Calentia Historical Society, owns of which would be the preparation of a compensation before you have you for the product of the chiff works of which would be the preparation of a compensation before you for find as it was not predict that the preparation of a compensation before you for find as the preparation of a compensation before your contract of the preparation of a compensation before your contract of the preparation of a compensation before your contract of the preparation of the prep

sian the erection, suber on the Sorrey side of the Thames, or on the site of the Crystal Palarend an Iodian Hall and Museum absorbing the present son at South Kennagton. The first of Indie being of peramonot importance to the Empire needed to be brought home to Londoners. Mr. Charles Bucktand, while favourable to the proposals, pointed out the fissocial and other difficulties of the others.

Seel's Free College -The prize-distribution of the Seal's Free College to the meritorious students came off very recently at the Gullegs premiers in Helliday Street. There was a large attend-ence of noted gentlemen of the town The report was then read cot from which take the following :- The school has kept in view the cerdinal object of imparting cound education to the boys. Its chief aim therefore is to assist the struggling poor end the middle cleases in the education of their sons. The text-books accordingly are judiciously effected and preference is given to cheep and nerful books The echool majoly sime at justilling a teste for literature and ert, and developing both the morel and intellectual faculties of the atudents. The members of the menaging committee, though they hold but a few meetings during the year under review awing to the death of their late President Bebu Nobin Chend Barel, bare elt along e great interest in the regular work of the echool. The work of the lower classes is constantly agreevised by the senior teachers, and great attention is paid to the teaching of each lodiriduel boy in the class. and to the formation and development of good bebite and morel cheracter Half-yearly annual examinations are held and exercises are given every week in the first four clears. The soawer papers era revefully corrected, merked and returned to the boys. Marke ubtained by them at the exercises so well as the results of the half-yearly examination are duly recorded and taken into eccount at the ennual promotion when necessary Progress reports are cent to the guer-dians after publication of results of the helf-yearly and the annual examinations. Guerdians are requested to report to the teachers the conduct of their wards at home, their causes of absence, etc.

PUNJAB.

Debt Residentia College — In the course of the next three years. St Supports College, Debt, under Principal S. K. Rindre, is to be recognized on a readerable bane, and removed in the new correct to the new College of the College of

all be resident and in charge of the hostele, and most of the Indian staff will be in residence also. The Government of India have accepted the scheme put before them by the College enthorities, and have placed at their disposal for immediate building purposes one lakh of rupees as a mark of that ecceptance. It is hoped that an emple site will be afforded with large pleying fields and the best sentiery end bealthy conditions. The Cullege will draw its secident endents not only from Delhe, but also from the Punjeb and other parts of India. At present it will remain efficie-ted to the Panjab University, but there is a atrong hope that in the course of time Delhi sill ha the eret of a Residential University. For that reason tha new development of St Stephen's College which has been notlined above will be in accordance with the standard of the future University. Two new Professors, both first-class boncors men from Oxfred and Combridge, will join the eteff of the College in October.

ALLAHABAD.

Primey Education in U. P.—The following we the names of he Manbers of the Ultied Proises: Friency Education Committes—Mr. 7. C. Pipell (Prendenti) Messes. B II. Prenentiti. W. Juliano, C. Marchell, C. A. Bicharon, C. Lapton, G. A. U. Streatfield, E. A. Bicharon, Prend Hambers); Dr. Stouder La, Lybon, Rev. B. Clargor, G. A. U. Streatfield, E. A. Bicharon, Prend Hambers, P. Stouder, L. Lybon, Rev. B. Clargor, of Matter, R. Sip and Pippor and Babo Chair Run of Mercut, (non-chinal); and Mr. I. D. O. Elliod. Scottery, Mestings of the Committee will be held as Naul 7.0.

Bollie Dun Literary Citch.—The second ashlers sary of the above literary Citch was held be the compound of Babes Brahmanatha Sinbs, near the Mahomedia Bording Home. Dr. Satish China Brahmanatha Sinbs, near the Brahmanatha Sinbs, near the Brahmanatha Sinbs, and the season of the Brahmanatha Sinbs, and the Brahmanatha

gave a silver medal to the member of the Club who stood first in his class in Indian History This. prize was won by Mr S O Sinha. The Chairman delivered a brief speech after the distribution of prizes to which he generally appreciated the sime eod objects of the Cloh and wished every specess to it In advised the members to try to open a Labrary, as being must essential to a Literary Club Pt. Bam Cheran Sukle thanked the Chereman on behalf of the Club and this brought the proceedings to a close

TRAVANCGRE

Scholarship -Miss Vieyra, a daugher of thu Chief Secretary to the Travencore Government to given a schularship of \$200 a year for four years, to gn to Edinburgh and pass the M A of that Umversity there Any student, after his public school course is over, mey join the University There is a preliminary examination in English Language a Classical Language and one part of Mathematics The papers for the prelimioary will be of the stand ard of the Madras Matric so much so that those who have passed the Metriculation of the Madras University generally have so easy walk over in the preliminary. Then the student attends a coorse of lectures in the subjects he chooses for his M A and posses tu metalments The studeot to ellowed to fluish his course only to three years Trevancore stready has got two or three Edinburgh M A's

There is a rumour that Mr Goosle Menon M A. Assistant to the Professor of History in the Trivan drem College is going to be sent to Orfined on Cambridge for a course of transpor to History This would be quite welcome

MYSORE.

Education in Myears -The Government of His H ghusas the Maharajah of Mysora have sanctsoned the opening of 141 new Primery schools at a cost of close on Ra 23 000 per annum Sanction has also been accorded to enother proposal of the Inspector General of Fducation relating to the entertainment of additional teachers and to an increase in the pay of the teachers in Cirls' Schools who teach musin and needle work. This will involve an additional expenditure of shout Ra 10 500 per enums Two other proposals made by the Inspector General and asuctioned by Government may be mentioned They ere the opening of Canarese Upper Primary classes in the Auglo-Varuscular School at Davangers and the Government Canarese Middle School at Namen god which will provide recruits with higher general culture to go forth as teachers for Primary and Middle Schools The establishment of a Central Boarding School for Panchama students at Mysorn as an experimental measure at a cost of Ra 4000 hea also been sanctioned. Thu proposal of the Inspector Ceneral, that a few

of the inspecting officers of the Educational Department should be dejuted every year to selected Noemal institutions in British India for such periods es may be necessary so that they may acquire on insight into the latest methods of primary education has been approved

____ Foreign Hotes.

GREAT BRITAIN

Indian Wranglera -There are two Indian wrong lers this year in the Cambridge Mathematical Tripos out of a total of 31 These brilliant young country men of ours are Mr R Chandra of the Jahore Government College and Mr H Shivdseanl of Fighmatone College Bombay Oor congretuletions on their distinguished schievement.

Parents' National Educational Union -- Lord Beauchamp presided at the opening of a four days Conference of the Parents National Education Union at Caston Uall Westminster on May 5th In onening a discussion on a paper by Mr J St C Heath entitled " Education and Social Sympathy." Lord Beauchamp said be was never taught coything eboot eousl sympathy at school and he was afraid the same coold be said of the pupils at the public echools of the country at the present time, He contended that there should be more education given upon the benefits of peace for fustance. As time went on and se the circumstances of the world changed and became more complex there was an increasing need of peace. The teaching of philosophy that force and war were not only wrong but unclean, was likely to speed to our present day men of ection, and he did not think any one nould deny that, when once it was proved to the business men that wer was hed for him he would be more I kely to listen to that ergument then to the argument that war was in itself an evil Gor education in soo al sympathy should extend not merely to social sympathy which was national, but to oce also which wes internetional

International Congress of Students -The moth International Congress of Students to be held at Ithaca New York U S A from Angust 29th to September 18th of this year It has a strong commattee headed by Dr Woodrow Walson the President of the United States Students of all netions are invited for an international intercourse and frank discussion of ideals and experiences regarding their problems The object of this Conference is to promote a apart of international brotherbood and bomanty by encouraging friendship and mutual nuderstanding between the etndents of the world Each nelions group will be an independent noit and atadenta will be placed in correspondence with one another The delegates will visit several States and Universities of the United States, where they will be guests of Covernors and others. In the end.

they meet as Wastington the national entitel, where the President will hold a special everytem.

Health in the Training of Children—We. Mr. Noder, between on the Development of the Development of the Development of the Children of the Chil

Association of Read Touchers . Second impor tant Bereintens were possed at the Assest Conforecast the National Association of Hand Touchers, which was presently hold. The morning discussed alliength the perposed edurational reforms to be instituted by the Opportunest Mr. J W Liffs, Sheffrid, moved a Hessiative halleg sath prof med autofaction the public processes ments of the B and of Education and of the Land Charcellar with respect to the proposed antimal evitem of education so criticating all force of adaratural of ora primary. secondary, and L'airersity; and expressing the opinion (i) that fliets secondary education on a different basis should be organized monatto all and facilities for properation for the technical influencies as well so for academic purposes [2] that auch an adequate samble of rebulerships in these aroundary schools should be provided as to meere thes serry child capable and fixed to benefit by each secuedary education should have the privilege of Jaing so; (3) that a system of maintecance achilerables eboald be established to enable children of poor parents to continue their adversion in such accou-dary schooles and (4) that leaving scholerables abould be setablished to enable these children to proceed to the technical Colleges or to the Calcardities. He said the Beesletion was formed with a rise to providing driving force for the proposale which Lord Haldene wished to bring before l'actioment. Referring to the scholership question be remarked that having g at their scholership exetem is marked this naving g. n. tonir scholarship system, is was a mere mockey to differ scholarships so the poor boy or grill, having received them, they save meshe to take a drawing or timen through pursary. An amendment, was moved to the closer relating to gebolarships, to the affect that direction should be scholarships, to the affect that direction should be free to all Municipal secondary schools to receipt of Corernment grants It was neged that only 5 per cent. of the 600,000 children who leis alemantury schools annually entered secondary schools. The amendment was rejected and the Resolution was carried. The question of ferring and filters regardtoes of ale.r attainments was introduced by Heter, Etu!" ald, and the Conference instructed the Chuncil to gate into eranders'its at the earland promite oppositually the important and presing leavisabers but observers at he contemp peareles of money administra anthorities of territori and the promision of printers, president of their minerational attainments, and not only to brieg the metter forthly before the fixed of Lineston by deputation, if persite, but also to lebs erest possible masse of emplanting to parents and the greerst public the turnful effects of such artic. The Council was farther desired to arge spee the Brand of Edoration the destrability of reducing as early as preside the size of claramia primary activity in reder to menes the maximum amount of testigated training On the proposition of Mr. Openit, Bradland, a Resolution was passed arrost the actablishment by statute of echant of sice with dectal departments, the trut to be deferred from the Imperial Factories

The life Altity destillator To double assentions of Mr. Altity Altity and the post largest life was appeared by Lord Kilabary in 1903 years personal refer this other than the predessors. Inset Joseph 2014.

Mr. Astus's appearance give rise to activate many continuous as much prompt secure of the carbon structure as much prompt secure of the redictions. Mr. Altired Active was been in 12th, and results for the proper deal the transport of the deal was the 7th prompt of the the prompt of the control of the carbon security presenting at the bar. On the deal was only for the years and and served regions of premanently remaining at the bar. On the deal of the first he 1-41 Mr. Asada drived regions of premanently remaining at the bar. On the deal of the first he 1-41 Mr. Asada drived regions between the premaining breds in the country. Among his process of the control of the first life of

LITERARY NOTES

'Four Poets' by Mr Stopford A Brooke (2s net) a new volume in the 'Reader's Library' The four poets are Clough, Mathew Arnold D G Rossett, and William Morris The critical quality binds with eloquent appreciation The author is a friendly guide for young men whose literary taste is forming.

Mr Fisher Unwin will have ready this month, inder the title of Burms under British Role A Model Possession, an English edition of the work recently published in France by Frofessor Juseph Dautremer, of the School of Oriental Languagers, Parts formerly Fesich Goussius Hangoon The ranslation is by Bir James Gogreg Scott.

Towards the end of this month Mearre Chapner and Rall will publishe new work by Mr W S Lilly soluted The New France' containing secret of studies written chiefly with the object is showing how the essential ideas of the great Savolution are reflected in existing conditions on he Third Republic

'Problems of Power' by W Morton Fallerton (Constable 7s 6d, net) is a study of European Stateeralt, from Ladows to Kirk Kilese I The work helps the given of the empire to follow corrent wests inclingually

Hichard II. edited by Henry New Bolt (Claren don Frees, 1s 6d uet) is an admirable students edition of Shakespers of play with a glossary and introduction The reades will be delighted to look at this delicate httle serves of the plays

In writing the *Lufe of Mahammad (Christian Literature boosty, 30 ers) the author, the Konon Seil, respectively and the state of the control of the state of the control of the state of th

Mr Werner Laurie will have ready this month of The Correspondence of Goldwin Smith 'selected and edited by his literary executor and secretary. If Arnold Hanlain, who has added a biblio graphy of UbiGwin 'Smith a various writings. The correspondence includes letters from Lord Resebery, Mr Obamberian, the late Lord Halisbury, John Bright (Glostone, Peel and many other collabrities

The fourth volume of the late Dr Cardners Lollardy and the Reformation in England will be published by Messre Macmillan shortly with a

prefere by Dr. William Haul containing a npprecasions of the hatorina work in general, and of his Lollardy in particular. The fourth volume, hunch brings the narrivire to the dath of Februard VI and the first year of Murya teston, may let be Dr. Gistichert in an offinished stake but has been Dr. Gistichert in an offinished stake but has been to be supported by the state of the state of the Lollings of the state of the state of the state of laddinest of a promise "finally confirmation" and farwold wast to bux shortly before his dead;

A timely addition is about to be made to the Cambridge Historical Series in a bistory of Toltoman Lapire, 1801-1815 by William Miller The work brings the record through the Salar The work brings the record through the Salar James a Flaice, leaving Turky once more what abe was in the first hell of the fourteenth century a purely Anato Fower.

Mr W Lyon Blease has written 'A Short History of Engish Laboratian which Mr Faber Unwin will publish during the present season. The book traces that progress of Laboration during the past recess that progress of Laboration during the past speeches and latters which illustrats the way in which the operating classes required themselves and their subjects and the gradual modification of the prevailing class of these classes. Mr Bletan the prevailing class of these classes. Mr Bletan present Government, estimuting its successes and failures to mislanoung the true Laborat cause

Modern Grabb Street and other Essays' is the title of a collection of studies and sketches by Mr. A St. John Adoock which Messra Herbert and Daniel amounts of restly publication. Mr. Adoock treats of such topics as. The Literary Life.' Poetry and the Public.' A Conclument of the Press' and 'The Mess Holday in his earlier books Mr. Adoock has strong evidence of the bearsy and engaging as hitely to Bud a welcome from readers of a bookula total the such as the

When dirara Walter Scotts begrevabled series of Great Writers Ben began to appear, a writers Ben began to appear, a writer Ben began to appear and the States Nation believes it was Orcer Wilder-dum seed the volumes as "great writer by littlemen". The state was the broughly ouders red for many of the hoper were writer by most of distinction and weight, and the series is one of the decried value and weight, and the series is one of the decried values of the series will be series with Jersey Walter Scot are to miss Jersey addition to it and a vulnum on "The Life and Writings of the series of the seri

The Board of Education have just published a table of Summer Courses in England for the information of Education Authorities, teachers and sixdenta. The table gives particulars of 27 coprses, including three Summer Schools of Congraphy, asven courses dealing chirfly with educational bandwork, elementary actence and Kindergarten work, one course in Child Study and the teaching of young children, one on the direct method of teaching Listin, sis courses in various brauches of agriculture and horticulture, and nine general courses dealing with several subjects

The Directors of the Eucyclopudie Britaunica have ad spied the escellens plan of brugging out e yearly volume (The Britannica Year Book) supplementary to the new edition of the Encrolopa-lie and designed to bring all its information as fee as possible up to date In the first eren just out there is a full and well compressed article nu ladie from the skilled hand of Mr. J. S Cotton, who, as editor of the Imperial Genetieer is the most experienced compiler in England of lodien reference meterial. The erticle contains brief summaries of the Cousus, the Administrative and Political Bistory, Pinence, the Native States, atc. Faturelly the most interesting Astronomy of the control of the cont faircess, elthough now and ageln Mr Cotton permits himself to reflect the official tone and opinion especially in regard to occurrences connected with the nurses of the Minto periods.

The Cambridge University Press will abortly publish actudy of The Municipalities of the Roman Empire, by James B Reid, Professor of Ascient History in the University of Cambridge The work is based on a course of lectores originally delivered in the University of Lindon and repeated, with some changes, in the United States, first se Lowell Lectures' in Hoston, and afterwards in the Columbia University, New York. The sections ambracing the eastern provinces of the Roman Empire have been sepanded to book form for the sake of completences.

The Oxford University Press bea in preparation The Oxford University Press one in preparation a now edition of Sir C. P. liberta Study of "The Government of India," to which a second empirementary chapter has been contributed un the Coronation Durber and its nonsequences.

Among the books to come from Mrasse. Pitman next mosts will be a study of The Federal Systems of the United States and the British Empirer Their of the United States and the British Empirer Their Origin, Natura, and Development, by A. P. Ruley, who shows how the creation of the tederal systems of Canada, Acarelia, and South Africa was influenced by the Constitution of the United States, and what the federation of the United States away

It is understood that Mr. G M. Territa is just fluished correcting the prof then & bingraphy at John Bright, and that the best published early next month by Mesers. ("

Lawie's Scientific Circulating Library, d. Gower Street, London, W. C., besides aplendid collection of modern medical and medical books, includes all brenches of and general technology, and it is classed every book of any importance in in the Library. The catalogue conta-11,000 titles of works. A

to subscribers. Among the regulations. will oppeal to teachers is that books . as long, or eachanged as frequently, at convenience of enbacribers.

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____ SCHOOL AND COLLEGE SPORTING NEWS.

St. Joseph's College Sports.

Their Eacellencies Lord and Lady Parties to companied by an A. D. C. were present the About Combined Sports of the St. Jumps Control of the St. Jumps Control lege and On the St. Jumps Control of the St. Jump lage and Cadeta held at the St. Joseph Colete Wet weather prevailed, with a high wind highly eliths with a high wind term? eli the while. The programme consected of tree two events. Of these the Clob swinging is sent the clob swinging is the clob swinging is the clob swinging is not the clob swinging in the close the clob swinging in the close the clos Pentior by and the Swedish drill by the jester were gone strongh exceedingly well. From the great security and the security was gone to be secured by the security was gone to be secured by the security was secured to be secure event, Lord Pentland, clong with the pulge for the course, watched with keen interest, the discern events. ent events. The Babica' race particularly attention of both Their Escollencies' estention. Sveets were kneely contested and good sport and Witnessed. The starters were Mesers.

kidd sud Hackrit. The judging was done by Colond Ward Captain Friegerald Captain Valen tine Brown Brother O Ferrell and Mr McGark Throughout the atternoon the N V R. Band was in attendance. Lady Pentland presented the cape and prizes.

The Governor and --'I wish this College very success and I wish his winner of the rece usery success not only in such races as the one we wintessed, but in the great races in him. Brother Doyle the Frincipal in elequent terms referred to Their Directlicates interest in their College and the success in the college and the success in the college and spain. Three cheer very sure in the Level lections in their depretations.

London University Athletia Union Sports

The Excita farmul Sports Resisted the University of Library and the Resisted Control of Library and the Resisted Control of Library and Library the Library and the situations as as made better A cop presented by Lord Rosebery the University for the most successful Colleger was effected for competition for the first time as were the Burkbeck College to College Colleger was Colleger for Competition for the first time as were the Burkbeck Colleger was Colleger was operated by the Colleger was operated by the Colleger was considered for Colleger wa

The performances of the afternoon were very satisfactory and two of the records for the meet ing were broken—the Herdles by Paget Tombinson

tie old Cambridge Blue, whose time was 174 sec, and the Tarce Miles by O O Read of Birkheck College who won in a plendid finish by inches from R W Badired of Wye College in 15 mm 594 sec

Lundon Hespital was ancessful in carrying off four out at the fire challenge cups offered for competition namely —

The Rosebery Cup for the bast College 601 points (8 firsts 1 second 1 third and 1 tred third) Brkbeck Collegn was second with 321 and Gnys Hospital and University College tred third with 18 points

The Ledy Busk Cup for the best individual performance was won by Paged Tamineson London Hospital by 24 points (8 firsts and 1 second), with White (Birkheck College) second with 17 points and Stewart (London Hospital) third with 14 points

The Lady Egerton Cop for the 100 yards was won by Stewart of London Rospital in 101 sec, against a strong wind

The tioline Cup for the long jump was won by Paget Tomi seen white the Erkbeck College Challenge Cup for the College of the wineer of the Mile was won for Brkbeck College steelf by A J Whitn

At the conclusion of the meeting the i rises were presented to the winners by Dr Gregory Foster, the Provost of University College

SIR A. SASHIAH SASTRY, K.C.S.I., An Indian Statesman—a Biographical Sketch

BY

B V. KAMESVARA AIYAR, M A.

Pudukettar

Price—Rs 3 BELECT OPINIONS:

The London Tirus - A well written his of this enlightened statesmen and reformer undertaken by the request of the Maharajeh of Travancov

The London Daily Area — This book contains many stories of the tast and judgment which eathlied him to fail the discate post at share to an almost abrollar-monach. A robot-label will do much to open the eyes of Disropens to Indian affairs as viewed from the nature standpoint. The English of the author is almost perfect.

The Madron Mini (Londer)—" Mr. American Aiyar has not only so excellent England style, but slot but sevential qualification of a longrapher, a dos dermination of rubes or has trained to be materials that he has collected. The rounds is no every way excellent. The life-integral for Sainth Sairty contains tenson for all of the Europeans and Indiana sinks, and there is hardly, page of his hoppraby which does not three light on the problems which face is to did the Europeans and have all the sinks and the sair and the sair



dents. The abble gives particulars at 27 convens, including three Sammer Schools of Geography, seren courses desling thirty and Kindergarden budwark, elementary science and Kindergarden work non course to Child Stedy and the steaching work non-course to Child Stedy and the teaching think, as come out as direct anabod of teaching think, as come out as direct anabod appropriate and boricolitars, and nine general courses dealing with sereral subjects.

The Directors of the Eccyclop.edia Britannica have adopted the excellent plan at bringing one s yearly voleme (The Britannics Year Book) supplementary to the new edition of the Eccyplor and designed to bring all its information as lar as possible up to date. In the first issue just out there is a full and well compressed article on India from the skilled hand of Mr. J. S Cotton, who, as editor of the Imperial Gasetteer to the most experienced compiler in England of lodian reference material. The article contains brief summeries of the Consus. the Administrative and Political Bistory, Finance, the Native States, etn Naterally the most interesting part is the section dealing with the political and social changes of the last few years. It is written, of course, with knowledge, and in general with great fairness, although now and again Mr. Cotton parmits himself to reflect the official tons and opinion especially in regard to occurrences connected with the narest of the Minto periods.

The Cambridge University Press will shortly publish satisfy of The Manicipalities of the Rome Expire by James S. Rid. Professor of Assistat Missory in the University of Cambridge. The work is used on a course of leatness artificially delivered to the Cambridge of the Cambridge

The Oxford University Press has in praparation a naw edition of Sir C. P. libert's Sindy of "The Government of India," to which a second amplementary chapter has been constibuted on the Coronation Durbar and its consequences.

Among the backs are as

Among the hooks to orms from Masser, Flusans and most most will be a said of it Far Federal Species of the United States and the British Emper. Burst Orgin, States, and Dereipasers, by A. F. Foier, who above how the creation of the federal systems for the said of the sa

It is understood that Mr. G. M. Trevelyse has just finished correcting the proof-sheets of his biography of John Bright, and that the book will be published sarly next month by Mesars. Constable.

Lawir's Scientific Directating Library, at 15, Grawe Streat, Lundon, W. O., besides consistent and production of motion separation of motion of producting scientific sections of the second production of the second general scientific search book of say importance in correspond of say importance in correspond of say importance in the Library. The Architiga comis to superside it is the Library. The Architiga comis to superside the same second of the second secon

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A History of Europe, by A. J. Grand, M.A., King's College, Cambridge, Professor of History at the University of Leeds, With Coloured Happ and Plans. Crown Svo pp. 171, + 674 Price 7s &d. no.

Pice Craturies of E-splith Peetry, from Chasor to Da Vere. Representantes Educations to Da Vere. Representantes Educations of the Res. Courge O'Nell S Johnson Will. Statement of the Res. Courge O'Nell S Johnson Will. Free English University College. Dublin. Will. Free English University College. Dublin. Will. Free English. University College. Dublin. Will. Free English. O'Nell S Proc & 64.

SCHOOL AND COLLEGE SPORTING NEWS.

St. Jeseph's College Sports.

Their Excellencies Lord and sold Paralled Section of the Control o

Kidd and Hackett The judging was done by Colonel Ward, Gaptain Fritzersid, Captain Valen-tine Brown, Brother C'Farrell and Mr McGnirk. Throughout the afternoon the N. V. R. Rand was in attendance Lady Pentland presented the cups and prizes

The Governor said -" I wish this College every success and I wish the winner of the races overy success not only in such races as the one we witnessed but in the great race in life." Brother witnessed, but in the great race in life" Duyle, the Principal in elegaent terms, referred to Their Excellencies' interest in their College and boped to have the privilege of welcoming them again. Three cheers were given for Their Excellencies on their departure

London University Athlette Union Sports

The Eighth Annual Sports Meeting of the Uninersity of London Athletic Union was held at Stamford Bridge on May 22nd The meeting was favoured with fine weather, the number of entries was far larger than of recent years, and the attendance sleo A cup presented by Lord was much better Rosebery, the Chancellor of the University, for the most successful College, was offered for competition for the first time, as were the Birkheck College Challengs Cap, the Lady Egerton Cap, and the Gellina Cap

The performances of the afternoon were very satisfactory, and two of the records for the meeting wars broken-the Hurdles by Paget Tembrason. the old Cambridge Blue, whose time was 171 sec. and the Taree Miles by C O. Read of Birkbeck College, who won in a splended finish by inches from H W Badford of Wye College in 15 mm 591 aso

London Hospital was successful in carrying off four out of the five challenge cups offered for competerios, pamely -

The Rosebery Cup for the hest College, 601 points (8 firsts, 1 second, 1 third, and 1 tied third) Birkbeck College was second with 324 and Guy's Hospital and University College tied third with 13 points

The Lady Busk Cup for the heat individual performence was won by Paget Tomlinson /London Hospital) by 24 perots (3 firsts and 1 second). wish White (Birkbeck College) second with 17 points and Stewart (London Hospital) third with 14 points

The Lady Egerton Cup for the 100 yards was won by Stewart of London Rospital in 101 seo. ageinst a strong wied

The Collins' Gup for the long jump was won by Paget Temlinson, while the Eirkbeck College Challenge Cup, for the College of the winner of the Mile, was won for Birkback Gollege steels by A. J. White

At the conclusion of the meeting the prizes were resented to the winners by Dr Gregory Foster, the Provost of University College

SIR A. SASHIAH SASTRY, K.C.S.I., An Indian Statesman—a Biographical Sketch

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The Educational Review

Every Viceroy, unless he happene to be a King Log, comes to India Our Vicerov. with a definite, clear-cut principle of edministration to apply to Indian effairs. Lord Curzon's ideal was efficiency aed efficiency he set about to secure, efficiency at eny cost, efficiency though it ent millions to the quick and drove them into cullen discontect. Not that this single-minded devotion to the demon of efficiency was barren of results. Becevolent despotiems do bring about some solid good, witness the re-organization of our Universities and the creation of the Archaeological Department. But in pursuing his ideal, Lord Curzon sowed the wind and left his successor to reap the whirlwind. Lord Minto presiding over our destinies doring an outburst of elemental passions, when the desperado had learnt the fatal lesson of coldblooded morder as a weapon of political retaliation, halieved in the iron glove on the right hand and the velvet glove on the left. When the storm is oc, the only thing to do to strike down the masts, clear the deck and serve out atrong drink to the able-hodied acamen. Repression tempered by concession helped Lord Minto to weather the atorm. Then came Lord Herdings with a different ideal. Concessions are needed to rally round the moderates but they will at best henefit the articulate few; but they cannot touch the root of the evil. Repression, whatever its temporary value during crises, can nltimately breed but more discontent. No evil is remedied unless its cause be removed. The true caces of all evil in India, whether it be the political evil of discentent, or that root-evil of apperatition which lies behind all our trouble is the appalling ignorance of the

people of Indie. Education, wide-opread education, and not repression nor concession, not repreof nor flattery, is the only potent red of Ammon that can charm away the crils that obcess the land.

obcess the land. Lord Hardinge, with the true vision that is accorded to the statesmen that is born (and not made by family connections or self-made by blactering colf-advertisement), or w that anarchism in politics, and anarchy in social organization and religious life can only be eared by the epresd of knowledge. Hence wheo the deputation of the Iodian National Coogress met him on the 3rd January 1911, he caid, "In the body of your address you refer to various broad questions effecting that welfare of the massee, which I can assure you the Government of India have entirely at heart. The realization of some of these proposals would entail a very considerable increase to the normal expenditure of the Government and would in all probability require new soorces of revenue to meet it. The educational problem is one, however, the Government of India have taken in hand." It is unnecessary to enumerate here the various acts of Lord Hardiogo's Government in the furtherance of education, for we have recorded and commented oc them all in our columns. But it is worth while to realize how His Excellency has been constantly preoccupied with this one subject, for if all administrators and all public men realized this quite as well as the Viceroy does, the progress of education is the land will be much more rapid than it is. Speaking to the Muslim League, Labore, early in 1911, be said, "The goal is still distant when every boy and girl and every young mun and maiden shall hors an education in what is best cake lated to qualify them for their own part in



life and for the good of the community as a whole This is the ideal we must put before in." Hence how appropriate in the celebration of the Viceroy's Birthdey—the children's day—throughout Indie by the very children's hose education and uplifting Lord Hardings hee pleced in the forefront of his programme Specking to the Minemmadane of Karachi,

Lord Herdings send, "A grave responsibility rests upon me to see that the efforts now being made are wisely directed, not only because I am the Heed of the Government of India, but also because I owe it to my grandfather's memory to endeavour, as fer as in me lies, to shope to the best ends a policy in the initiation of which he took so keen on interest" This noble heritage of the ideal "triumph of neace" is so prominent in our Viceroy's mind that he never omits to drive home into the minds of his hearers-and these are as much the officials as the non-officials-the necessity of the widespread of education To the Sikha of Lahore ha pointed out the value of agricultural education and the advantages of the Lyalipur College. To the Rajaha and Chiefs of the Punjah he spoke of the great adnestional work in Labore The fruits of this great trust in the efficacy of education have been many The Universities of Aligarh and Benares and the State University of Dacca have gone beyond the stage of mere projects and will very soon be opened They are mapured by the helief 'that the more such Universities are multiplied and distributed over Iodia, the better will it he for the cause of Indian education" But the noblest prononnement of our Viceroy is contained in the following passage from his aprech on the Budget of 1912 -" The aky in clear so far as the human eye can judge, and we are ready for our pext advance. On what lines shall

we proceed, and for what goal shall we strain? To that question my answer is clear and unbesitating. We have secured the defence of the country We have removed our great handicap in international trade. It is now nur daty to turn all our suergies to the uplifting of our people. To that task we are giving freely in the Budget which you have discussed to day lest too much to hope that it will be the dominant policy of the coming years? The Finance Member told the Council of the hopes that rose in my mind when first I took charge of my high office By those hopes I still shide, and in them I am more than ever confirmed It is only hy the apread of knowledge and by the resolute etruggie ageinst avoidable disease and death that India can rue among the netions. It is with this ideal that I moverely trust our finances will remain in touch. The path will not always he smooth. Funda cannot always be available or enthusiasm always fervid. but we have made a beginning and we can-

not now turn back " Yes, we cannot now turn back. hut we can turn into hye-ways and we can mark time In our Presidency, during recent years there has been a noticeable abrinkege of Colleges and of Secondary Schools In the name of that very demun of efficiency that animated the soul of Lord Corzon many institutions have been given the quietna We do not plead for the multiplication of indifferent schools On the contrary, we have frequently bemoaned the terrible inferiority of our schools to those of Europe and America and have given accounts of how they do it in those continents so that the enthusiasm of our school masters here may be repred. But the best way to deal with an inefficient school is to mend it and not to end it. If a school or college cannot

provide for the cound teaching of Physics and Chemistry, why not it be presnized as an institution for the teaching of History and Geography? Why should it, instead, be reduced to a lower grade school. Similarly, if the Syndicate will not place obstecles in the way, how many second-grade colleges can be raised to the first grade, teaching noe or two Branches-sey History, Philosophy or Indian Languages. Neerly half-of-our second-grade colleges nan hecome first grade nu these lines, because the increase of cost would be little. if the D. P. I. will give such jostitutione a alightly larger grant than now and if the Syndicate will give its sympathetic help-But the two ' ifs,' are two hig ' ifs,' Nn ampout of viceregal enthusiasm can accomplish much unless there is a similar degree of local enthusiasm not only for the increase of the efficiency of what education there is hot also for the spread of what edocation is possible under present conditions.

Speaking of the curtailment of Primary Schools in Rawslpiodi, Lord Hardings seid : "The spread of elementary aducation is a subject in which my Government takes the deepest interest, and I am glad to think that the additional funds we have been able to reserve for this purpose will be taking their course through the main pravincial phannels and their way down the district tributaries and help to fertilize the intellectual anil of Rawalpindi," In a recent issue we complained that these streams of Imperial generosity become divided and sub-divided on a mechanically conceived basis of statistics, so that individual streams become an lean as to degenerate into driblets that could do no nue any good. Unless the Local Governments have a well-thought-out scheme of developing different kinds of schools in

differest localities and compley these windful from the Government of Iudia in with that scheme, starting or aiding just tations as they are necessary, instead of ing as one an unexpected grant, in some exect considerable, in others despicable, for every achool and expecting it to evitation as prescribed date on some admost purpose or other, the Imperial streams will not entire har well.

We count better follow up the shove all

The ideal of public education according to the British Scienca Guild.

too-inadequata account
onr Viceroy'e views on
uplifting of the people
India hy means of
tion than by giring a t

account of the scientific system of National Education devised by the British Sci Gaild and published in a recent . of Nature. We hope this note will a holy discontent in the minds of our with the present state of education in India The first requisite of education is for anthorities to provide for healthy grow during infancy and throughout school in India, if you tell a Municipal Counci that this is one of his duties, he will ynn as a madman. The second is the solute necessity of mannel work and rel practical exercises throughout the conrec of school instruction; in South Iod nut even aix schools provide for this. third is efficient public Elementary : within the reach of all children and ance at school compulsory nutil the 14; we may get this a' bondred . if we keep up the agitation started Mr. Gokhale. The fourth is attendance Continuation schools for all not receiving anitable instruction; in Ind we have not heard of Continuation

The fifth is snitable Secondary Schools available for all who can profit by tham . tha aixth is the institution of School Certaficates as passports for Universities, and the seventh to give a secondary place to examinatione as against school records, in South India, we are trying to seems this in a small mesenre The eighth is the courdination of technological work with University work, in India wa have no technological work worth the name. The ninth is "Increeced grants to Univarsities and other places of higher education for purposes of ensuring the reduction of fees for all courses, in India this is anothers. The tenth is the improvement of the position and conditions of service of teachers, this is a sobject over which avery one who is not a teacher sheds crocodila's tears and none does appthing The last rathe readjustment of the shares of the cost of education borne by the national Exchequer and by local authorities, so that educational progress may be made a national responsibility. In other words, next to public health, education ought to he the heat cars of the State. This is exactly our Viceroy's position and would that others besides him realized this

In Evening classes provision is made in London, for "tuition, at itonal work in London." In the london, for "tuition, at itonal work in stages of science, technology, arts and crafts, com-

mercial sobjects, economics, and liferature, in the flamentary Science, Geography, Indian well-equipped institutions from qualified History, Drawing, etc. These are subjects to about 250,000 and nearly 200,000 papels. Allerent schools One we form public examinated these classes, of whom 50,000 are maintened these classes, of whom 50,000 are maintened these classes, of whom 50,000 are maintened on the ge of 21 years. It is reported jects and so the framersof the "School Final that though the pupils that attend these Schama" heve left it to the sense of bosons.

classes go thera after a hard day'a labour. tired physically and mentally, they show a vary great eagerness to learn "The Evening student has less time for study, but he makes mara effective usa of it. He has practical knowledge that forms an excellent lostitutions evening In many students are doing work in their sphiecta quite equal to that required for a University degree," The work done there is so good that the avaning continuation schools are going to be thoroughly reorganized, they will be called "institutes" instead of "schools" The anecishzation of the functions of individual schools will be made to depend upon the eocial, educational and industrial demands of the districts of London where they are attested Their work will be brought into line with that of the higher institutions. such as the polytechnics and the jumor sustaintes will be affiliated to the sensor ones. Contrast this faverish abutety in England for the spread of education with the shrinking of nnr secondary schools and with the state of our technical schools, which like angel's pusts are few and for between

The Director of Public Instruction in a racaut communication Tha B Subjects of the S S L C wants employers of clerical Copres labour who are Governmant officers and Principals of Colleges to give due weight, in assessing the worth of School Leaving Certificates, to the antres under what are called B. Subjects. tiz, Elamentary Science, Geography, Indian History, Drawing, etc. These are subjects which have to be taught in different wave in different schools One un form nables examinating is not desirable or possible in these anbjects and so the framers of the "School Final

376 of Headmasters to devise proper syllabases in these sobjects, urrange to have them tunght in accordance with modern methods and to estimute the progress of their pupils in them by awarding marks. The eircular of the D. P. I. implies that these aphjects are being neglected in schools. We do not believe it is so; but if they are really neglected, the means above recorted to for compelling Headmasters oot to neglect these subjects nught certainly to be objected to. External, indirect force, such as is exerted by examinutions, ie invoked by this mesus, a force which sever did our ever cas do good. If the D, P, I, thicks that these sebjects are not taeght as they might to be, a circular to Headmasters is sera to recall them to a sense of their dety. The Inspectors of Schools, too, cae easily ramedy the defect, such as there is, if derieg their asseal visit, they call up for the syllabusce is these subjects, examise pepil's note-hooks, and get the teacher to piva a lesson in their presence. The Inspectors form the only evailable lever for polifting school work. But the great difficulty is this Presidency at present ie the fact that one Inspector is a specialist in soience and in his circle science work is well done but there is little enthesiasm for other things. Another is a good classic end so on. And just now there is no history and geography enthusinst on the Inspecting staff ! Time wan when as ex orienti lux, all wisdom flowed from one particular circle ! It is high time, the D. P. I. arranged, as the Board of Edocution does in England, to issue detailed syllubuses, notre on methoda ef instruction, special reports, etc., and guide Headmosters and Assistant Masters in their tenching work. At present the D. P. I. and Inspectors do much more office work, compil-

ing and reeding up retures then this kind o educational work,

We tench in the science classes of our schools that nitroges i Active pitrogen. se inert, ioactive element Faraday wrote many years ago to a friend "What of nitrogen? Is not the apparent quie simplicity of action all a sham?" and the Honograble R. T. Strutt, F.R.S., has site two years of patient and ingenious experi mentation proved that in this, as in man similar flashes of intuition for which Farada was noted, the great Victoriae scientist wa perfectly right. At the Royal Institution Stratt gave an account of his work, 'H passed a rapid stream of rarefied eitroge through a tebe and sparked through the ge on its way by a series of high-tension electric discharges from a Leyden jar. The gas became visible as a whirling cloud of brilliant light, for at this stage the nitrogen molecules had aplit into siegle atoms. " Nitrogen atoms in this condition are necesy, and are envious te fied perteers agaio. But to du thie takes time. The rennice of the nitrogen atoms is attended with the emission of yellow light." Thin rennion of nitrogen atome occurs more quickly the lower the temperature. This is the enly instence of a chemical action quickened by cooling. This mountomic nitrogen unites chemically with substances with which cold ordinary nitrogen will not combine. It combines with chloroform vapour and forms cyanngen. It nuites with mercory vapour and forms an explosive compound.

Much good ecientific work is being done at the Solar Research Obser-The Kedaikanal vstory at Kodaikanal, Cheervs tory. which does not come with. in the notice of the public, because there is ne scientifio mugazine in India to record

scientific research that goes on in India Mr Evershed hes devoted himself among other thinge, to the visual and photographic chservation of the frequency of prominences on the Eastern and Western limbs of the ann He has accumulated a vast deal of obser vations during the period 1904-1911 and examining them statistically and issped a bulletin on the enbject. He has taken special precaptions to eliminate the personal equation which introduces has in the investigations He finds that there is a distinct predominance of frequency at the asstern limb, the average percentage of axcess being 52 70 Similar observations elsewhere in the world confirm the accuracy of these results. But as regards the cause of this excess of prominences in the Eastern limb of the ann, the connection of any, between this and phenomena of the earth there is some vague speculation, but nothing cartain known

THE LORD SYDENHAM COLLEGE OF COMMERCE, BOMBAY

We publish in this issue the regula tions, recently adopted by The institution of a Degree in Commerce, the Senate, on the motion of Mr K Subramana Argar, for the conduct of the examinations leading up to the Bachelor of Commerce Degree of the University of Bombay as well as two Press Notes assned by the Government of Bombay in connection with the establish ment of a College of Commerca su that city We heartily congratulate Mr K Subramani Asyar on his having finally encoeeded, after years of etrennoos endeavours, in prevailing upon the University of Bombay to jostitute a Degree in Commerce In the words of the Hon'hle Sir Narsyan G Chandavarkar, Kt.,

late "Vice Chancellor' of the University of Bombay and now Dewan of Indore, "Mr. A Subramani Aiyar's advent in Bombay is a landmark in this city I know and Mr Sphramau Aiyar knows how he used to come and tell me that he was bent upon getting the commercial curriculum recognized by the University and I know how at times he was a httle disappointed at the elow progress of his cause But I knew that he was a man not to give up what it was hie mission to accomplish Mr Sphramani Aiyar is a thin man but a very volatile man, his voletility bas worked wonders He is a missionary and has achieved his mission and has with his characteristic energy and perseverance prevailed upon the University to recognise the study of commerce He is a Brahmin, and a Brahmin's business is to go and beg, he has begged-begged not for himself, but for commerce and a commercial college "

While we recognise the institution of a University course of studies The establish ment of a College in commerce enabling of Commerca young men to be trained for business careers as a landmark in the hietory of Indian education, the institution of such axaminations would by itself have cerved no purpose if it had not been accompanied by the establishment of a wellequipped College of Commerce capable of preparing our young men for the newly instituted Degree Lord Sydenham has therefore rendered a distinct service to the cause of Indian education by having econred the financal apport of the merchant princes of Bombay and of the Government of India aod arranged for the establishment of a Government College of Commerce with an income of about Ropees forty thousand a year.

3. From the Press Note issued in Japan 1912, it appears that two Endowments for donations amounting to the College of

Rs. 3,25,000 bave been Commerce. received by Government for the fonedation of two chairs in the new College, that an annual subscription of Rs. 10,300 has been promised by six Mercantils Associations in Bombay end that an annual grast of Re. 15,000 has been sauctioned by Government. Again about three lakks of rapees have been collected by the Lord Sydceham Memorial Committee for the arection of a suitable huilding for this new College. A brief narration of these facts makes it evident that, hot for Lord Sydenham and the merchant princes of Bombay such a well-sedowed College coeld not have been established, at least for some years to come and but for Mr. K. Subramani Aiyar's pereistest efforts, there would bave bese so University coerse for which the atudente of seob a College could be trained.

22nd October 1913, before The College which date the Principal ataff. and the senior Professor. selected from among the graduetee in Commercs of the Universities of Manchester and Birmingham, ere expected to arrive and take over charge. Two lectureships on Rs. 300 to Rs. 500 are reserved for ludisms possessing the required qualifications. We nuders and that amongst the students trained by Mr. K. Subramani Aiyer in Bombay there are two graduate Incorporated Accountants, a graduate Actuary, and a greduate who ie both au Actuary and an Incorporated Accountant, Besides these, there are shout half a dozen other Indians who by their qualifications and experience are also fitted for lectoreships in the Collgee.

4. The College is to start work on the

5. The coeres is for three years and admission is restricted to such as have passed the Examinations

and Practical training.

Previous Examination of the University of Bombay

er the Intermediate Examination in Arts of any other Indian University. Students have to pass the Intermediata Examination in Commerce at the cud of the first year and the final examination for the Degree at the and of the third yeer. As the course provides for three voluetary embjects, students may specialise cither (1) as Bankers or as (2) Actuaries or as (3) Accountants and Anditors. The vacations have been so arranged as to coincide with the busiest sessoes for Aeditors with a view to enable students of this College to acquire practical training by working ander practicing Auditors or in Banks and Life Inserance Companies, doring their vacations. 6. Under-graduates of an Indian Univer-

sity other than that of Bombay must bave passed Admissions to the Intermediate Examinathe College.

tion in Arts of their University before seeking admission into this College; otherwise, they must, after passing the Matriculation Examination of their own University, join an Arts College in Bombay in January and keep two terms in that College from the third January to the 30th September, pass the College examination in September and then join the College of Commerce on the 22ad of October un the atrangth of the Principal'e certificate that they have eatisfectorily carried out the work appointed by the University of Bombay for the first two terms in Arts.

7. We quote the following remarks about the scheme of studies for the Degree from the report Scheme of Studies of the Committee appointed in 1911 to report on the best mothod of outcorraging the stody of commerce—a report for which Mr K Subrameni Aiyar was maioly responsible —

THE COMPULSORY COUSSE

- (a) "Recognision, as they do, that higher brainess training ought to be bosed on a systematic study of economies, the Committee have included in the compolitory course a study of Political Foonomy and of Applied Economies in the various aspects"
- (b) "Daring the first two years after matriculating, candidates for the Degroot in Commerce will study Light hon the same lines as candidates for the Bachelor of Atts Degree, while in the last two years of the course, candidates for the Commerce Degree will devote their attention to English Composation."
- (c) "As a certain amount of commorcial knawledge is necessary for all bosicess men, onbjects like Mercantils Law and Practice, General Accordancy, and Leonomic Geography have been prescribed for all students"

VOLUNTARY GROUPS.

"Provision has been made for a certain amount of specialization at the Dogree Lx amination, so that candidates may be able to devote special attention to the group of sobjects which will be most useful to them in the special career to which they are looking forward and for which they have an aptitude Three valuatory groups have been provided one of which must be offered by each candidate for the Degree, viz, (1) Exchanges, Investments and Carrecoy, (2) Accommany and Anditing, and (3) Actourist Science with relative Mathematics."

"We are of opinion that there is a distinct demand for the ser-Prospects of vices of vocop men trained employment to the way we auggest, and that the institution of a Degree on the lines recommonded will open nat new careers for Indian youths, and holp Business houses in securing the services of trained youths, who can be gradually advanced to the highest positiono in Bosicoss, while, we are convinced, that the cause of liberal aducation will in no way be imperilled, by the recognition of Applied Economics and the study of Business Problems" Thoro will further be considerabla scope for these graduates in Commerce us practising Actuaries and Anditors sioce the Indian Life Imprance Companies' Act and the Indian Companies' Act recently passed by the Imperial Legislativa Conocil require the accounts and statements of such companies to be verified and audited by qualified Actuaries and Anditors

The Law College Re organisation Scheme, as formulated by the Gov-Madras Law College Rs organ eroment, breaks a distinct isation Scheme apell that till now hnng over the legal education in this Presidency. The important features of the Re-organisation are that it revorts to the old system of allowing the College Professors liberty to practice-an arrangement which any one interested in the cause of teno and sound education, can have no hesitation in condemn-A decade has passed since that schema was discarded in favoor of a full timed College which has worked satisfactorily as seen in the results of the T.L and BL. Examinations of the Madras University. The results in the University Examinations during the period prior to 1901, were snything but antiafactory The working of the College,

then, was still more upsatisfactory. Professors being men in ective prectice, were frequently sheent in the mofuseil and classes had to be dismissed for the unavoidable absence of the Professors. Matters led to such a climax that people could hardly yet forget the pangent erticles entitled "Law Cullege day by day" that used to figure in one of the Medras dailies. It was this undesirable state of things which made the Government convert it into a full-timed College. And the Vice-Principal, and the Assistant Professors who were appointed in the beginning of 1901, were not allowed to practice. This celutary condition has been slowly and gradually relaxed with the consequence that men regard the appointment only as a escondary vocation to be subordinated to the all-absorbing interests of a practitioner. Instances are not unknown and (we are informed) are of frequent occurrence, that these practising lecturers come to the lectureroom 10 minutes late and close their lectures 10 minutes earlier. It is impossible for a practising Vakil or Barrister who has his case ready to be called in the High Court at 11 a.m. and who has to argne an intricate and important case before the Judgee, could keep his mind clear and cool, apart from the distracting facts and anthorities of his case, to lecture to an intelligent set of young men in an instructive and edifying manner the previous hour. An argument is advanced that the hest practising lawyers only could turn out se successful lecturers in classrooms. The very statement of the fact is its refutation. We have only to refer to the hononred names of Sir Frederick Pollock and Sir William Anson to justify the refutation, if any justification were needed, Moreover the peculiar aptitude necessary for

anccess at the bar is quite different from the attainments necessary for a successful professor ne lecturer and in the majority of instances, the two do not co-exist. The Western pations and foremost of them, the English people have come to reslise this. At a time when specialization is the order of the day, it is strange and surprising that the Government should resort to the oldfashioned methods of saddling the successful practitioner who has too little time for his Court-work with the additional burden of lecturing to the students of the Law College. There was an excuse for a resort to this practice during the days of Sir V. Bashyam Iyengar, Ramachandra Row Saheb and Mr. Mitchell, for then the distinguished scholars in the legal profession did hardly exist. But now, when things have changed and when men with the highest scademical distinctions which University could offer can be found in the legal professions, it is against all reason and good cense, that their cervices are not secured exclosively for the Law College, and that the interests of the College should be made to rice and fall with the varying quantity of leisure that a hardwarked practitioner could ill afford. Active service for twelve years before becoming entitled to pension will enable the Government to get men of ripe experience and schularship for the place and if Professors are started on a decent selary, say et Rs. 1000 per month, and Asst. Professors nu a salary of Rs. 500 with an eventual peneina after 12 years, they will gladly give up the uncertain income and incomvenience incident to the life of a practising Vakil. The pay and prospects of the Principal aught also to he increased pari passu. Under the scheme just brought forth, it is indeed e matter for surprise that the Guvern-

ment heve, in the case of the Law College, adopted a policy which is far from securing distinguished acholars of law to its acryice The pay and prospects of other technical colleges are graded and they have the sare prospect of a pension efter they retire. The neculiar difficulties that he in the way of at taining distinction in the legal profession, spart from the question of costs in its equipment, ought indeed infinence Government in provid ing e liberal scale of pay and in framing rules for the pension of those engaged in imparting instruction in Law On the other hand they are treeted with scent considers. tion and the existing staff except the Princi pal, we are told, ere not entitled to pension, There are difficulties in the way of framing rules to regulate pension and the duration of the service in connection with Law College The peculiarly prolonged training in Laward the decree of attainments requisite in a Professor of Law will not allow e man to be drefted into its service at the same time as his compaers are drafted in other professions The rules that regulate the appointment, ser vice end pension of the Judges of the High Court mey be usefully kept in view in this connection The Principal, who should be accound to mone of his Assistants, should not practice and yet his pay is only chont Rs 1250 while the two Professors who draw a pay of Rs 500, mey enjoy e lucrative prac-It does not require any ingennity to see that auch Professora would pay eny heed to the welfare of the College The Pe perpal besides being e lecturer has to discharge uther onerous duties of his office, and at is got erring on the aide of liberality if his pay is made to range from Rs 1500 to 2000

The Law College has developed a normously for the last ten years. It needs atrengthening, strengthen it in ell ways possible-hat strengthen it with men who can give their nodersided time and energy to it but not with men who can scrape a few minutes from their busy time and make their jaded time when ther here to take some rest a means of repleciabing their purse. The last if not the least of these ressons is the legal profession in Madras is a most popular and paying one and as such the public have a right to expect the Government to pay greater attention of not at least as much attention to the Law College saut does to technical Colleges

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A Text-book of Tamil Composition

Specially adapted to meet the requirements of S.S.L.C. and Intermediate Examinations

(Prepared in accordance with the recommendations of the University of Madras)

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CONTENTS.

Chapters I and II deal with the spelling of words, and give the definitions of certain technical terms which are used so the work. The uses of a and or, s and s are defined and districted by examples.

Chapters III to VI explain broadly the different parts of speech with special

reference to the inflectious and tense-particles, which obtain in modern Tamil.

Chapter VII deals with compounds and explains the distinctions between cases relation and non-case-relation compounds and those between elliptical and non-elliptical compounds.

Chapter VIII deals with Sandan. Those roles which are obligatory are considered first, and those which are optional are treated herefy towards the end.

Chapter IX (Syntes) deals with the areagement of words in, and the analysis

Unapter 1A (Oyntex) deals with the arrangement of words in, and the analysis of, sentences.

Chapter X (Common errors) is, briefly, a summary of the previous chapters, and gives a number of exercises for correction under the heads of Wrong Spelling, Use of Colloquial Words, Use of Improper Forms of Words, Wrong nee of Sandhi and Misiskes in Spriax.

Chapter X1 deals with Penctuation.

Chapter XII explains, by means of examples, the etroctore of Sentences and Persgraphs.

Chepter XIII explains some chief Figures of Speech, anch as Simile, Metaphor, Hyperbole, etc.

Chapter XIV (Prose style) treats of the easentials in good composition, riv. Perspicnity, Brerity, Simplicity, Espony and Picturesqueues. This chapter contains a large number of examples from standard works such as Panchalastram, Pen Kait' (Yedanayakan Filial), Zamii Essays (Prof. T. Chelvakesavaraya Mudalisr), Bhartrihari (Pandit K. S. Copalacheriar), etc.

Chapter XV gives general instructions as to the way in which essays may be written. A select list of subjects for essay-writing is given at the end of the chapter.

Appendix I gives the list of Loan Words approved by the University of Madras.

Appendix II contains a list of books that may serve as models for Tamil composition.

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THE CORRELATION OF HISTORY AND GEOGRAPHY* ABOUT this time of the year 1907. I

ABOUT this time of the year loss, when had the privilege of nponing a discussion on 'The Teaching of Liementary Science in carrelation with Geography in the lower forms of Secondary Schools,' I I dwelt at come length in the observational aspect of the teaching of Geography and showed low the subject might be begin in an inter-stody. The immediate neighbourhood of the pupils—the eky above, the earth below, the fanna

† Published in the Educational Review February

and finra sround-together with the ustural phennmena of every day I fe, is pregnent with lessnus of gangraphical significance These, when brought into proper relation with the accumulated experience of observers in wider fields, lay the foundations of a rational study of Geography I also draw your attention to the main lines of connection between Geograpby on the one hand and the natural sciencee on the other Though Geography cannot claim to be ranked as a separate science in the sense in which Physics or Chemistry may be considered as distinct units, yet it provides a common meeting ground for the workers in the various fields of patpre study and mathematics-Climatolngy, Cartography. Gendesy, Geology, Anthropology, Ethnology, and the like There is no branch of knowledge having any bearing on buman comfort or progress that cannot be brought into relation with Gengraphy The Ruyal Society refuses to recognise Geography as an independent and definite branch of study, nevertheless the educationist regards it as par excellence the science of sciences It sflords the teacher infinite possibilities of co-ordination with the other enbjects of metroction, specially in the Inwer classes Starting with Geography es centre, his teaching can be made in radiate ont in all directions, touching history and language, nature-study and mathematics,

A paper read at the Serenth becomdary Teachers Conference, Vizagapatam on 15th May 1913 by Mr & S Parabrahmam R a. L.T

drawing and modelling. In the hands of a skilled teacher, Geography becomes me of the most powerful means of training the intellectual and setbetic feculties of the child, no less its manual and tacilie sensibilities.

I submitted for your criticism and approval syllabuses in elementary science for all classes -from Standard 8 to Form III-including in my scheme as much of Physics and Chemistry, Briany and Zoology, Geology and Astronomy, as is required for a clear understanding of geographical principles. I also laid some stress on the human note-the relation of the babits, dress, and accupation of man to local geographical nonditions. I convribated to one of the rarlier issues of "The Teacher" a shart article on "The New Geographical Outlook," suggesting the continuance of the study of the "natural-knowledge" side of Geography even in the High School forms. The classes in Practical Geography conducted by Mr. G. Bamadoss at one of our appeal conferences have given an impetra to this aspect of the teaching of Geography; and, in many of the leading schools in the circle. Practical Gangraphy has been introduced as a regular subject. I may be permitted to remark in passing that undue importance is being given. as in England, to the construction of maps, in preference to a study, as on the other side of the Atlantic, of the interpretation of maps and uf physiographical conditions.

I have thus far reviewed what has been done to give you as idea at the secure foundations an which our conception of the teaching at Geography rests. However much a knowledge of map-making, earth-love, and meteorology be made the basis of a scientific atndy of Geography, our schemes whald be incomplete if, the geographical principles studied could not be applied to the actual studied could not be applied to the actual

conditions of every day life. Our stody of Geography would be sculless and insipid, if we could not view the world as the abode, any, the duminion of man, its averlord.

I stand before you this morning to have n talk with you on the humanistin untlook of Geography. We shell investigate how the gengraphical conditions of a region have munided the destinies of the people inhabiting it-haw the physical aspects, the cootour sod configuration, the climate and the productions, have dominated man'a activity in all directions. In short, we shall view Geography as the handmaid of History, and trace the infinence of geographic controls upon its great movements. It shall also be within nor province to see to what extent man's activities have been able to combat and modify the natural influences of geographical conditions, This interaction between humanity and its geographic environment, when duly understood and appreciated, should largely shape onridess of the teaching of two of the most difficult and sadly neglected subjects of the school engriening.

Before we praceed to examine the logical results of earth control on the strivings of man after social, economic, and political development, let us try to understand in a general way the connection between History and Geography.

The must elementary association between the twannbjects licelin ideas of time and space. While Illiatory deals with etime, Geography is concerned with space and attention. This connection of time and place is perhaps the weakest ground for linking together History and Geography.

As Geography deels with the topographical distribution of the earth, mountain, plain and sea, and of everything that the earth sustainsplants and animals including man himselfand as History is the record of the progressive ectivities of mankind on the anriace of the earth, it is impossible to conceive of any history of man epart from the real history of Battles are not fought in the air and men do not live in space. The two anhjects present twn different aspects of the same question, each being incomplete withint the other. In this age of specialisation one cleavages should never lose sight of the intimate connection that subsists between two anch allied subjects as History and Geography In our enthusiasm for one of these we are apt to lose sight of the whole of which it forms a part I have it on good anthority that boys are fond of Geography and girls of History As neture intended woman to be the comple meet and associate of man, so shall Geography leave the sciences which have given it its

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hirth, and cling anto History ! There is yet a atronger ground for correlating History and Geography than of coexistence, santiment or followship A higher and more philosophical conception of the relation between the two ambjects, hes in sequences-in the direction which the distinctive characteristics of a region give to the development of its inhabitants, and the way in which man endeavours to make the hest of Nature's gifts The progress of civilisation depends on two factors—the uncessing efforts of man and the steady operation of natural causes These two forces dn not act indepen dently of each other towards a definite end, but ast and react on each other all bistory through This dependence on gengraphical environment is more direct and decided in the earlier atages of civilisation; but, as man ruses in the scale of nations he casts off his

alavish dependence on Mother Earth, grasps the opportunities of environment, end learns in control and nities them. The intimate bearings in geographical conditions on the distribution of man in communities or states must be of interest to the historian who simulate at being more than a chronicler, and the efforts of inventive humanity to subjugate nature may be relegated to the domain of Geography (seography has been defined by Mr Mac-

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kinder as the physical basis of history We may with Mr Scott Keltie go a step further and call is the physical basis of all human activity. As we take a rapid survey of the whole world, we find that the track of human civilisation and progress is modified and controlled by what forms man's immediate environment. The he of the land, and the chmetic and physical forces around set the conditions under which man must fade or flourish The Laplander struggling for the bare necessaries of life, is dwerfed in stature and cramped in intellect The Cosseck of the boundless steppe is an excellent horseman With every excuse and opportunity for reading during the tedions winters, the Icelander has become a book-worm. The harrenness of the Cambrian mountains has made "Taffy a thief" The forests of Servis have torned the Serbs into awine-herds. The poor soil of Norway has driven the Answegrans to various wood industries—the manufacture of matches. the building of ships and the making of paper Tandstikker Norway' is familiar to every boy the whole world nver Norway passesses a mercantile navy that in toonage is surpassed by nnly three European powers. Saw-dust is so largely used in the manufacture of paper that "a tree in the morning is a newspaper in the evening!"

The Chicaman wishes to be left severely slone. The Hindu glorice is a past that is lost in the shyss of time. The splendours of Egypt are hursed is the sand-drift of the desert.

This dependence on rivers for food flush expression in the codesting epithets given to rivers—Mother Volgs, Father Rhice, Sister Danthe, Old Father Thames. The rapid growth of population along the backs has made the atroggle for existence keen and has raised questions of intercourse and ownership. From time immemerial these river valleys, is vitting conquest from without or footstring strike witho, have been the access of rapine and slaughter. One of the earliest motives for war is the postession of more food-hearing lands for susteesees.

"The mountain about are sweeter.

But the valley sheep are fatter,
We therefore deemed it meeter
To carry off the latter."

To take a apecific example, in three distinct periods of the world's bistory-once derieg the war of the Austrian Soccession, a second time in 1812 ie the Napoleonie wara. and again in 1866 in the Aestro-Pruseian war -a series of hattles were fought in the same line of the Elbe, either in the gorges of the Elbe where it breaks through the monetaies hetween Bodesbach and Dreaden, or at a short distance north or south of the valley. The Railway from Vienea to Berlin takes the same route—the line of least recistance. Hence the political and commercial importauce of Dresden which commands the passea, s.g., the ravine of Planen-through the Erzgehirge into Bohemia. River valleys baye been the meeting places of both friends and fors, end the estural lies for the railway alwaya takes it through a battle-field.

Considerations of time and space prevent my taking more than a passing notice of the Danube basin-one of the most superisat thestres of European war. The lower courses of the river teem with fortified towes such as Sdistria, Rustchuk, Sistova, Widdin. These fortresses guard the ferries, and are of no small importance is time of war. Playna stood a long siege during the Resso-Turkish war of 1877. On the upper reaches in the fortress of Ulm-an important strategical centre of South Garmany against possible French attacks on Alsace and the Rhine. The Iron Gate is guarded by the fortress of Bolgrade, the capture of which by the Turkish Emperor, Solyman, in 1521, was the signal for the rapid expansion of the Ottoman empire along the valley of the Daouhe. In fact the Hellenie Mediterranean was the divergent focus of a migratory mevement that, passing along the valley of the Danuha, civilized the whole of Western Europe. The great hattle which checked the coward programs of the Hoogarispa was length on the Lech. Tha equally important encounter which put a stop to the Mosgol inroads of the 13th century, took place near the eastern frontier of Aestria proper. The flood of Otteman invasion was repulsed from before the Hapsherg capital, Vienna, the guardiae of the Hungurian Gate. Vienna is within easy reach of Bohemia across the line of Mahrenwald. It also commenicates with Northern Escope through the valleys of the Oder and the March, sed commands the mair highway of intercourse between East and West. Very enturally therefore several military events of decisive importance took place near this city -Radolph of Hapsherg's victory which gave Austria back to the Germana 1278, the retreat of the Torkish ermy is 1529, John Sohieski's victory which finelly drove back the Ottomans, Napoleon's victory of Wagram (1809) which placed him at the result of his power Australiz (1805) "that killed Patt" is not very far off

We can trace the history of the colonisation of Eastern North America along the great lakes, the St Lawrence, and the mighty Mississippi The great fortress of Ebreohreitstein opposite Cohlentz is " the Gihraltar of the Rhine" The Guadalquivir gove the Moors ao entrance into Spain The "Penidah" incident (captured by Komaraff 1885) took place where the Unrghah valley (Alghan Turkestan) narrows into a deep The Tork sh garrison urder the Euglish general Williams held oot (1854) bravely for six months at Kers in the valley of the Knr (Turkish Armenia) The entrance to France is Toulouse (on the Garonne)-too loose! Khartum stands at the junction of the White and the Blue Nile Majuhah Hill and Rorko's Drift are in the valley of the Boffalo Charlaros on the blense, Talavera on the Tagne, Strassburg on the Rhice, Ratisbon on the Danchs, all hasr witness to the same great principle Killiscrankie, Jens, Alme, Hohenlinden, Badajos (Bad a hos), Cin dad Rodrigo (The' oo dad Rod ra go) may also be mentioned

Agan in Northern Italy a number of invers break through the Alps and flow from north to south across the plain of Lombardy into the Po which takes an essierly course into the Adriante North Italy is acrocoaded by the Alps and the well known passes of St. Gothard, Simplon, Barnard and Spluggeo, give access from Enrope to the plains of Northern Italy We should not be surprised in number of battles were fought either to gain the passes, or to defend a passage across

nne of the rivers. The hattles of Locato, Rivols (1795), Chinsella (1800) illustrate the former Lods, Bessano (1791) Marengo (1805) Magents and Salferino (1839) hear testimony to the latter. The valley of the Adagé, to particular, which gives easy access from Lindon Austria has been the hattle-field of Northero Italy. The valley is foll of troces of the heroic arringles of Italy with Austria on the battle-field of Montoe, Caldiero,

Roveredo. Nearer home, the ridge of land over looking the basin of the Gauges on one side, and commanding the gates of the North-West on the other, was, in the earlier periods of Iodian History, the scene of much carnage and bloodshed The hattle of Kurokshetra (50 miles porth of Dalhi), the two hattles of Tarian or Thalawari (14 miles from Thancewar) and the three hattles of Paniput (50 miles to the north of Delhi) hear out the importance of the North Western passes in deciding the destinies of the Indian peoples The cap tal of the Indian Empire and the sommer residence of the Viceroy are also on the same ridge

It may be partiment to the subject to discass in this connection why the Swiss ware the first to adopt the principle of compaisory military service The four large cantons of Velair, Grisons Bern and Ticino correaround mora or less to the upper vallays of the Rhine, the Rhons, the Aar, end The Renss runs between tha the Ticino eastern and western cantons The upper Benss valley darives the greatest hensfit from the Fohn wind, and the lower Renss valley formed part of the old duchy of Swabia The responsibility of driving the Hapsburg oppressors into the Dannha vallay, and the Savoy intruders into Italy, devolved on the three central cantons—Unterwalden, Uri, Schwytz. These centran were peopled by a hardy race of montaineers of German descent, who could ill brook the insolence of the Hapsburg officer, or the creeky of the Austrian Dake. The men of Schwytz took the lead and delivered the country from the hands of the oppressors. The "hattise deliverence" were fought round the cauton of Schwytz—Morgarken (1793) on the unrthern frontier, Sempand (1886) in advance of the western, Nifels ahead of the eastern. The beroic death of Arnold von Winkelried is still commemorated by an annual festival.

"Thus Switzerland again was free; Thos Death made way for Liberty."

The story of William Tell emphesises the spirit which fired the men of those cantons at that time. The military schools at Basel and Thun, the fortresses of Martigny and Andermatt speak for themselves.

Climats no less than any other gaographical factor has infinenced temperament, physique and intelligence. Its workings are traceable in the tone and cast of expression it has given to literature and religion. The fuming plaios of a swampy water-logged delta jo the tropics sap all energy and incentive to initiative or enterprise. The "delightful cola" of the Canadian winter, or the clear hanvant etmosphere of the Karroo, or, for that matter, even the dry scorching heat of the Anstralian desert, and the sharp extremes of the Tabetan Platean or the Arabian Table-land, have had an exhibarating influence, and have developed conrage and energy which are a good equipment for life. In apecially favoured localities this courage and energy crystallised into a love of war and ferocity as seen in the Mahratta yeoman, the Scottish Highlander, and the Gurkha warrior.

The calabrinas climate of Giller, and the people of temperate habite of the people of

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The science of Astronomy had ite hir' in the level erea of South-western Asis where the cleer akies, the transparent atmosphere and equable climete made it asy for a study of the Heavone. The watchfalness of a pestoral people developed a spirit of enquiry, the twinkling of the stars contracted virally with the bright blue sky behind, and the lack of well-marked bont daries in an oriental desert made a knowledge of Astronomy indispensable, in much the amas ways as the annual nbificeration of marks of domarcation by the inundations of the Natz resulted in a study of Survay and Geometry.

Religion in its ultimate enalysis is an expression of dependence on comething that can gratify or torture us. Man throughout all time has deified that which has made the atrongest impression on him. The school hoy living and moving and having hie heing among mangoes and aweetments, why should he know of bliss in a life to come? Enough if he dreads the powers that can rob him of his holiday or bar his promotion. To the auxious mother the doctor who can seve her collapsing son, is a god. The miser rolling in wealth ie a worshipper of Mammon. The nanrer sits before his golden pile every DEEPAYALI. The Red Indian bowe hefore the munificent bestower of maize and meat-The Hindu, discovering the entiseptic properties of snushine, has ordained the worship of the snn in all cases of illness. The importance of the timely arrival of the south-west monsoon to the Indian peasant, finds expression in the worship of Indea and Varena The superstitions reverence for the cow is nothing more than a poetic conception of clouds, whose udders pour down on plants and animals the showers of the nectar of life The melting of the ice of the Neva is celebrated with great rejoicings in Russia. The loss of vitality on the aweltering plains of the Ganges, the presence of death in almost every form and shape gave rise to the doctrine of Nerrana The mythologies of India, Greece and Scandinavia are other instances in point, The three great monotheastic religions of the world-Muhammadausm, Judssam and Christianity-had their origin in a desert Compulsory self denial gave predominance to the mind over the body All the three religions. presch the lesson of a barsh inhuman desert, Renunciation, Thou shalt not The Jewish conception of a God of Justice, "a jealona God visiting the iniquities of the fathers on the children nuto the third and fourth genera tion," bears the impress of their Egyptian houdage The promised land overflowing with milk and boney lies at the base of the Christian notion of the God of Love The Muhammadau ides of eternal bliss, of nuend ing sensuous delight attained by the faithful, is in direct opposition to the privations of life in an inhospitable desert. The study of Geography has thus revealed man as the creator of god-a god to suit his own needs and fears, his hopes and aspirations I am alread I am trespassing on holy ground ! Considerations such as these have led to a

belief that forms of government abould vary with the olimate The slavish dependence of YIX

the Negroon Nature's bounties has its counterpart in the unquestioning obedience he yields to nutbority The lassitude induced by the enervating climate coerces him into complete subjection Picture to yourselves the untold borrors of a Chinese public examination ! What do you think of being shut up in a solitary cell for full 48 honrs with a hundle of question papers in your hand, and after a day's rest to pass through a second similar test So trying is the ordeal that candidates are often found dead in the cells. The flexi bility of the S S L Certificate scheme breathes the spirit of freedom of temperate Germany The physical disquiet of the Andean region-its volcanio eruptions and earthquakes, ita torusdoes and hail storms-are reflected to the political narest of the South American republica,

In the tropica Nature is an indulgent mistress but in temperate latitudes, She is the servent of men The forceful energy and methodical labour, the forsuight and thrift characteristic of milder climes-these vigorons attributes essential to comfort and progress demand justitutions resting on the reason and respect of the people The perpetual struggle with Nature corresponds to the mending conflict with the crown

CAN GROGERATHY ACCOUNT FOR THE DESPOTISM OF THE TSAR?

"In the case of Russis, I would try to leave," says Prof Lyde, the " picture of (a) the wast plain, where mae is overwhelmed by the tyranny of Size, where he is isolated from his fellow man by the fyranny of terrific distances, where his initiative is crushed out by the tyranny of relentless monotony, where the absence of natural landmarks makes the church dome, gleaming above the mist cover-52

ed lowinad, the only guide to the benighted wanderer,—nad (¢) as the result of all this, where thet wanderer in tern so acquiesces in accordatal tyreony that he denies hie children coll caisan! food, even milk and eggs, in the coldest parts of the peer os soon as they overlap Advent ond Leot, where the perishable, ness of his cooden house, by firs in the icoloned wieter or by the ordinary wear of fifty sammers, apps any Historic sense with which he might criticise tyranny—whether political or secretoral, physical or climatic."

The instances just submitted will seffice to bring out the biss which topography and climate have given to the course of human history. The intimate relation between "life" and the inorganio elements which have determined its distribution on the surface of the earth, was recognised even by the pealmist. "The cedars of Lebanon, which be hath planted; where the hirds make their nests; as for the ctork, the fir trees are her bonse. The high bills are a refuga for the wild goats; and the rocks for the conice." This diversity of life, this adaptability of every species to its environment apparent in such e limited area, becomes all the more striking as we take a broader view. The differences due to the operation of ustaral farces are most in evidence in the life of plants, lower animals and saveges. The semi-squatic Esquimanx, the" hairy" Aino, the wandering Bedonin. the Prairie Red-skio, the negro "panting at the line" and the omnivorous tribes of the Anstralian Scrub, all hear in their modes of life distinct traces of the influence of their tokural surroundings. Like the polar bear, the Arabian camel, the Australian kangaroo or the African rhicoceros, they have either to adept themselves to their environment or succumb to it. The hidden treasures of the

earth must remain to them a sealed lette The expherant basine of the Amszons and th Congo, the dismand fields of Kimberley, th coal mines of Chins, the cataracts of the S Lawrence, the prairies of North America, th gold weins of Kalgorli, the oil wells of Pitts hurgh and Baku have so lung remains nnexplored or undeveloped, untapped o numastered. Unable to nuderstand or ntilise the physical forces about him, man invariably ascrificed ultimate good to immediate pleasure. The Australian blackfellow, his brain atrophied by ages of disose, would hew down a whole gam tree to capture an opossom; the gentla Mashons of Zimbaye would not hesitate to set acree of grass on fire for a dish of mice; savages have not accupled to reduce whole forests of useful timber to ashes to maka a clearing for cultivation.

With advance in civilisation man hes been able to rise above the blind instincts of his savage brother. Man alone of all living beings has recognised the intelligence with which he is endowed. He slone has learnt "to comply as well as to command, to conquer Nature by the observance of her lawe." The memorable march of Hannibal along the little St. Bernard Pass stands out in all history as an illustrious example of what man's courage and determination can accomplish in the midst of natural obstacles.* This is perbaps in direct antithesis to the advantage taken by the Dutch, as a last desperate resource, of netural canditions in their long war of iodependence against Charles V. What a sad disappointment to the enemy just when they were gaining ground to be ordered back by the anraing floods !

This I nwe to the kind suggestion of Mr. C. Rausford in the course of his presidential

The application of steam to lecemotion and the discovery of the electric telegraph hava annihilated time and space, and have swept away all barriers to cosmopolitan intercourse The mariner's compass and the sextent have made asvigation a science The once track less waste has now become a high way of commerce Man has helted the globe with cables and spanned the continents with rail The projected overland rnote to Aostralia enables him to go round the world in 35 days The unmastered floods of rivers have been controlled and made enhangment to The destruction of forests here and their conservation elsewhere have materially altered the conditions of raiofall and of olimate Steam drives the plough and reaps the harvest in many land. A judicious system of progetion and storage compled with the boring of artesian wells, has made the wilderness blossom as the rose A dreary landscape is now a emiling field of tasselled corn The whiteman's grave has been rendered sweet and wholesome by transplanting the Eucelyptus from Australia Thu lavish use of hill stations has enabled him to work far away from home, and home itself has been brought within reach of a holiday Who can helittle the importance of the Alpige tunnels. anderground railways, suspension bridges, ship canals and other feats of engineering skoll 2

We may yet dream of the roaring Niagara working the machinery of the whole world Ere long there may arise an industrial South Africa drawing its motive power from the Victoria falls, where the Zamhesi compressed into a gigantic awil planges into a gorga 420 ft, deep; the cotton mills of Bemhay may yet he propelled from the Gersoppa falls, where the Sheravati river dashes over a yawii

ong precipice half a mile high. It is not impossible that man's inventive genins will one day polist the ocean in his service.

one day polist the ocean in his service In his perpetoal struggle with Nature, man has grasped the inheritance of time and has learns to overcome his sorroundings. Does not this very sobjugation of Nature emphasise the dependence of man on Natore's giftscoal and gron? Climate is still the masterhand under which he works. It still directs his doings and defines his limits The natural elements have been largely subservient to him Now and then, however, they rebel and unde his work to show him how insignificant he is when compared with the mighty forces of Nature The totelligence within him gives him the conrage to rally and repair thu ravages caneed, and proceed to harness nature with stronger hands. We have thus canght a glimpse of the limitations under which man works, and it is the hosioess of Physical Geography to investigate these limitationsthese conditions of equilibrium in the strugglin between Natore and Man

Apart from the changes wrought by inventeve humanity in the physical world to make it adaptable to its requirements, there is yet another phase of homan activity which the progressive teacher of Geography cannot ignore The previous history of a country is largely reflected in its present geographical condition What a flood of light does a knowledge of the tribal migrations of the people of Asia towards the West about the beginning of the Christian era, throw on the differences-racial, linguistic and personalof the peoples of modern Europe! Is not a atudy of later European history essential to a clear appreciation of the modern st-stegical values of state houndaries, and of the elements to continental affairs that may, in the near

future, lead to changes in the political map of Europe? The stimulus which the American Civil War has given to the production and manufacture of cotton in India, and the circumstances that have contributed to the unique commercial importance and prosperity of Bombay arn too well known to need special mention. Is not the failure of supplies of flax and hemp from Russia during the Crimean War, responsible largely for the jute trade of Dunden? Could we afford to underestimate the part played by the Napoleonic wars in the development of the "lumber" trade of Canada? The upreliability of the importation of Beltie timber led England to look op to Canada for supply, and the lumberers rose to the occasion, Canada owes a deep debt of gratitude to the lumberers-the enly possible pioneers of the country-whe cleared the forests, made roads and bridged the rivers.

The military walls round important cities preventing their natural expansion along the lines of least resistance, the difference is gauge between the railways of twe such adjacent countries as France and Spain binduring through communication, are typical of the abnordities in which nations have induged even in these civilized times.

How could we appreciate the importance of lace as an article of aspect from Faragas, if we did not know its previous bistory? That country was from 1805—1870 magged in a foitle heroic struggle against the combined forces of Brazil, Urzgnay and Argentine. The war depopulated the country, and out of 1,400,000 inhabitants only 221,000 (1/f) of 1/6, when left, of whom out more than 20,000 (1/f of 1/6) were muche user 15 years of age. The large number of women accounts for the importance of lace as an industry. In spite

of capitalists to advance 'money, a level astface making transport by rail or road both cheap and easy, a genial and varied climate and a fertile soil, the country has not developed, as the surriving nild men, women and children have proved unequal to thutsk.

The short-sighted policy and the religiousbigatry with which the Impricition satinguished the indigenous Moorish industries can almos reconcile the entire absence of foreign commerce with the apparently advantageous position for trade of the posinents.

The material and political splender of Egypt, lost in oblivion, has been partially restored by the British occupation of the country. England has borne her share of the white man's burden in looking to the exact of Egypt—enter and justice—and the fellohin enjoy peece and property opheand of in the annels of Egypt—Themsaly has taken in beert the cruel raids.

Thesaly has taken to ben't the crool raids of "the unspeakalts Turks". Baring graused onder the Turkish yoke for many priordly years, Thesally has realized the insecting of her position on the frontiers oven after her restoration to Greece. Its natural resources are very limited, and, thirdly peopled as it is, it is no wonder if the country is not an prosperone as it should otherwise have been. The defeat of the galleons of Seriilo was

The defeat of the galleons of Saville was but the prelede to the part England, was desired to play, as mistrees of the seas, in after history. The nonlihitation of the Spaniah Armada, the naterprines, print of the "Deroushire worthies," the moio of England and Scotland noder one, king, the cowardies and peace policy of James I, laid the foundations of a greater Britain beyond the seas—"of the grandest and most wonderful political and commercial fabric," history has known. Trad he practically followed the

flag, and overy Englishman is justly proud of his inheritance—a sea girt empire previous the ann never sets—an empire 12,000,000 and miles in extent, combing 400 000 000 inhabitants, differing widely in colour, race and speech, but one in loyalty and devotion to the British flar

Fair is our lot-Oh goodly is our beninge.
He has smote for us a pathway to the ends of all

To the British Empire and to India of which it forms a part, we shall now restrict our investigations. As the field is very extensive, I have noted the geographical influences in Indian and British History to the form of syllabones, I should rather call them topical hate which I submit for your knod acceptance.

- * 1 Let of Geographical influences in Br History
- * 2 Last of Geographical infinences in Ind History

Long before any ettention was paid in England to Geography in its scientific and practical aspects, Germany had worked it out somewhat elaborately both as a subject of research and of education. On the Continent is well as in America Geography has proved its claim to independent existence as a necessary branch of human knowledge by being capable of original and quantitative research. The literature artifable to the German reader is very extrainse. Indeed in Germany the humanistic aspect of geography has been recognised as a separate unit and labelled "Anthropo-Geography."

But in England the movement to improve the teaching of geography does not date very far back the repellent text books of our school days, are still extant, and the dry as dash methods of study have not completely died not of late, however, a few good books have been published by enterprising firms catering to the occident of the up to-date teacher. The late herewith submitted is by no meen exhaustive but represents the more important books worth the teschar's attention. Note of the books noted have been written to suit Indian schools yet teachers will find in them now ideas and suggestive trains of thought.

t Lest of Broke

Just a word more and I shall have done. We have yet to consider to what extent this plerdependence of history and grography should influence our ideas of teaching We are all agreed that, for a clear understanding of many points in bistory, a knowledge of the scenes of the eventy and of the position of the places mentioned is essential. The map, the physical map and not the political, should be displayed, and eny geographical information necessary should be furnished I hope you will also andorse my visw that the mers shilts to draw a map and to mark the position of places on it, is no guarantee that the popul has a grasp of historical geography I am also sure that the consensus of opinion here is that there is too much geography. epecially military geography, for a history student to learn, and that, therefore, a detailed study of a typical campaign or two, and the military manuscrives in a comple of decisive battles just to give himself a little variety, is all that the history teacher can be expected to andertake Throughout the history lesson. bowever, the relative posit on of mountain ranges, table lands, plains and valleys and the resulting determination of water courses

To appear to a subsequent issue

[†] lo sppesr m a subsequent issue.

together with sir, rain and sunshine in alt their complicated kaleidorcopic combination, about disbe placed in bold relief before the popils, and they should be encouraged to see how these conditions, forming as they do men's timedists norricoment, have operated on bistory.

THE

I may be permitted to notice the modern tendency of subordinating the scientific study of geography to the humanistic outlook of history. The physiographical side of gengraphy which alone affords real mental discipline, is entirely thrown into the background. The physical characteristics are connected with the life of the people, and such information is given as may throw some light on the history and modern position of the country under sindy. Such a treatment usturally Eta in with the lines of attack of the history teacher, but cannot be digoifed as "Scientific Geography." nor sasigned a separate place in a school curriculum. The 'renders' I am alieding to, might be need in the history class or io the geography lesson for extra reading. Hers their atility ends.

I was amused to notice auslogy in the muthod of treatment in a parallel series of history and geography reders. In the earlier stages, the study of the home region goes hand in head with that of the fires of the herces of the homeland. In the middle stages a general treatment of broad movements covering large time areas in history is made to correspond to astedy of the outstanding features of geographical regions. In the higher stages leadmarks of European and world history are taken up alongside of the general geography of the world on a regional basis. Analogy is not correlation nor is juxtaposition interdependence.

Some educationists have else enggested that both the subjects should be combined

and two Interesting series of readers have already been published. One series emphasizes Georgraphy. The ather ashordinates it to History. Both the series have much to recommend them except their direlphacy valua. Amalgamation is not correlation. The very idea of correlation implies that the two subjects have different points of view. While Geography deals with the causal eviations of space and situation, where and why ther?, History is concerned with sequences of events in their time relations when, and why than?

Geography treats of sun and earth, listory of man and roon, Startieg with nature, Geography ends with a recognition of the interaction between man and catter. History takes mechanism colloch. History has tandended and the independent of the mount of the control of the colloch man. The superirecture would, however, be seating if it did not go a step farther and aim at a knowledge of the political and social evolution of man, an insight into the springs of human action, and an idea of the duline and responsibilities of man as a member of society and citizen of an empire.

The history teacher abould have in view the conditions imposed on history by geographcal circumstances, and the goography master, to his torn, while strictly adhering to the acceptation to the strictly adhering to the acceptation to the strictly adhering to the occasion arises, refer to the facts of history only in so far as they have langibly affected the geographical condition.

An examination of the series of readers above referred to, will at once reveal to the most superficial observer the danger of amalgamating the two subjects. The bright pictures presented and the Cinematographic displays of sceees from the world's History and Geography interest the pupil—I should any, fascinate him—but of the same time rub him of the power of ansienced thought On account of the discoonceted character of the comes presented, neither historical nor geographical canastion can be perceived, much less approximated. The child hegina to generalise on immificient data, and gets into slipbod ways of thinking, ir, what is more likely to happen, is carried away by "the impressionist pictures," and refuses to take kindly to more serious work.

Addressing a professional audience, I need not dwell on the necessity of correlating allied branches of knowledge The co-ordination of studies, or "Apperception messes" as the Germens would have it, is but a technical way of expressing the popular psychological idea of "proceeding from the known to the unknown" Continuity, Fellowship, and Economy ere the three factors governing the operations of usture The past is sudussolubly bound up with the future through the present, and thoughts follow soob other me chain The faculty of speech brings to the front the sociability of man from the intellectual side Nature naver presents one sided problems, and the psychologist recognises this fact in his theory of "the Association of Ideas" All intellectual material that is not brought into relation and harmony with the previous contents of the mind, fails to be assimilated The first of the five formal steps of Herbart, which explores the previous thoughtcontents of the brain, ensures economy of effort to making the presentation easy "Thought must be kindled at the fire of

thought "

"Nothing in this world is single, All things by a law divine In one mother a being mingle."

K S PARASSABRAN

A CRITICAL ESTIMATE OF GRAY, GOLDSMITH AND COLLINS

GRAY was a poet with lothy imagination. Goldsmith spent his energies in writing prove and poetry. The name of Gray is always associated with his immortal Elegy while the name of Goldsmith is known all more the evilused world with the apread of the glory of the immortal Vicar of Wakefield. Both of them have achieved lesting feme with a very small volume of poetry. They differed widely in their mode of composition. Gray laboured his verse as the jeweller polabed the da mood.

Goldsmith wrote with the artiess simplicity of nature. Goldsmith's Descrited Village is a striking picture of one of the secidest features of the crivinsation of the world. The success of the poem was instant and enduring Gray, incomperably the best critic of the period, heard the poem read by his friend Nicholis and reclaimed, "This man is a poet." Goldsmith's best poems, the Traislier and the Popini Complet. His best drama is "She Stoops to Conquer." He wrote Histories of Degland, of Homes and in Animated Nature Ease, a preclier charm and immitable natural-news characteries his works.

Gray's Elegy is one of those rarest poems which achieve at lone is fame and name which they ever after retain. It is perhaps the heat known and in its own life the heat poem in the Laglish languaga. Mr Palgrave says "They are perhaps the noblest stanzes in the language".

The anthor who had a prejodice against being considered a man of letters did not publish until seven years after he had begun it and then only he committed it to print because the editor of the Magazines of Magazines—en 18th century forernnour, in neme et least, of the 'Review of Reviews'—proposed to publish it without his leave. It has been through numberless editions and has been translated inte many remember languages. It is a poem that tought to be got by heart by every studest. The heat known tribute to this poem is associated with the name of one of the most brilliant of British Generals and one of the most fetfall battles which decided the design of the new world.

Lord Mahon wrote thus :---

Oe the 18th September 1759 the night before the battle on the plains of Abrelsen, Oeneral Wolfewas desceeding the St. Lawrence with a part of his troops. Not a werd was speken—not a second was beard beyond the ripplieg of the stream. Wolfe shon—thus tradition has told us—respected in a loud tone to the other officers in his best those heautiful stanzas with which a coentry churchyard isspired the mose of Cary.

One of the telling lines in the poem;

"The Paths of Glory lead but to the Grave" meat have seemed at such a moment fraught with moereful meaning. At the close of the recitetion Wolfe said.

"Now Gentlemen, I would rather be the author of that poem then take Quebec." Lord Byron called the Elegy "The corner stone of Gray's Poetry.

GRAY AND COLLINS.

A comparison between Gray's method of allegorical representation and that of Collina shows that the allegories of Collina are chinahed ones with more of flesh and blood than the former's.

Gray chooses telling adjectives while Collins

has an eye to vividees of detail. Orey's allegories as found in hit Bard are bold and olear, whereas Collius' representations are subject to the reproach of veguences and obscority owing to their effect of farnishing details. Cellins in his "Ods to Passions" shows the presence of a gonies.

Taking a particular piece of Gray's other vigorous poems, the 'Bard' has a special agnificance about it. It is founded on a tradition current in Wales.

The Bard, the last of his race, the bolk of whem N; ward had ordered to be mordered that they might not rosies, invekes the reageance of Heaves on him and shows him the folility of the congest as well as the parage of remore he has to antifer. In this poem, the poet gives a striking pisture of the listed's sable garh and haggard eye and attending him and beard;

"On a rock, whose banghty brew, From a over eld Conways foaming flood. Robed in the sable garb of woo, With baggard eyes the Poet atood "

The poet then indulges in a pethetic fallacy and says:

"Hark, how each giant oak and desert care.

Sighs to the torren's awful roles beneath
Over thee O' King I their houdred arms they wave
Revenge on thee in boarser marmer's breathe;
Yocal no more, since Cambris's fatel day,
To high born Hoel's harp or soft Llewellyn's lay."

The dead Barda and their magic mastery over the aphere of enga are perticularized. When he is mourning over their loss he sees a vision of other ghosts present in the distance and joining with him in prophesying the fotors of the king.

The sad fortunes of hie descendants ere traced. The capture and marder of Edward II by hie wife knowe as "The She Wolf of France " whose clime is invaded and ravaged by the asse of her long llward III is recounted

But in spite of Fdward's (III) grand conquests his death bed is deserted and he dies in solitude Black Prince is dead, and deserted by his friends Sometime after the kingdom is torn by the Civil War attended with great loss of life and bloodshed and disgraced with many fonl marders

As a sample of immediate retribution they foretell the death of Fdward's heloved wife and the prophecy being complete, the ghostly vision of the Bard's elaughtered companion wantshee

The Bard then sees another vision of the reenscitated glory of the old British kingly line

Girt with many a Baron bold Sublime their starry fronts they rear , And gorgeous Dames and Statesman old In bearded Majesty appear

The poetin version of Shakespaere, Spancer and Milton appear in all their richness and veriety and the Berd triumphantly points out the fatility of Edward's impotent efforts to stifle the apirit of the poetry

The tradition on which the Bard is founded 13 wholly worthless and rests on no sure foundation It is current in Walce that Edward when he conquered the country, ordered all the Bards to be put to death. In the poem we notice two special features Viudictive spirit and an assertion of the eternity of poetry Thiaduality is characterised by some on a defect in the structure

The first intention of Gray was that the Bard should declare prophetically that poets should never he wanting to calebrate true virtue and valour in immortal strains

But Grosse is of a different opinion saya" But fortunately for his readers Gray was purely diverted from abstract considerations of history into a concrete observation of its most picturesque forms and forgot to trace the ardonr of poetio genius in painting pictures of Ldward II s imprisonment and of the massacre of the Bards at the battle of Cambin

Some of his contemporaries H Walpole and others alleged that the poem was murred by obscursty of historical allusions. It is however groundless and a little knowledge of History clears ell donbts

The opening is admirably startling and the historic pictures and scenes that pass before our eyes are invariably vivid and are unrivelled for concision and force especially the stanza about Elizaheth

Amidst the profuse abundance of his impersonations he sime slwave at presenting the purity of Grecian outline His fancy like that of Shelly rosmed freely through all the varieties of Spiritual Polytheism

William Collins weecne of the truest lyrical poets of the age Even while he was a student he had written his Persian Ecloques came ont of the University with a reputation for capacity and indolence. His " Ode on the Death of Thumson," hoginning ---

"In vonder grave a Druid lies" is one of the finest poems in the English language Collins' hest poem is the "Ole to Evening" and his most elaborete poem is his "Ode un the Pessions," in which fear, rage, pity, joy. hope, melancholy and other abstract qualities are successively introduced making a trial of their merits on musical instruments manuer in which each passion is made to acquit itself, is ingeniously conceived

"The lovely little Ole to Erening" consists of a few stanzas and the whole poem seems "dropping with dewand breathing the fragrence of the boor."

His best critic eye of his poems:—"" His range of flight was perhaps the narrowest, hat seamed by the highest, of his generation. He could not he tanght singing like a finch, but he struck etraight upward for the sun like slark."

. [N.B.-The writer lays no claim to originality.

Most of the ideas are taken from the
lectures of the Rev. J. M. Russel of
the Madras Christian College.]

R. R. BRASHTAN ITENGAR.

NEW CURRENTS IN TELUCU

"CERTAINLY, I must confess my own harharonauesa; I never heard the nideone of Percy and Dongles, that I found not my heart moved morn than with a trompet." It was with a keen recollection of this famous sentence of Sir Philip Sidney's that the present writer pored over a simple and unpretentions hallad, which reached him by an accident, an unbearable summer noon last year. A few pink sheets folded carelessly into a thin and eallow packet were placed into his hands to while awey a tedions hour. The pagea were turned with a feeling of listless languor; there was nothing within sight, but the blinding rays of the ann; there was not the remotest chance of the mind being refreshed in such surroundings, sud lo l to his intense astonishment there was unfolded before his eves a Telogu balled, whose moving pathos went straight to the heart. It was n gloomy tragedy, enacted in its essence in many a

Minda hame, procleiming in its moneoing unter the haneful consequences of some of our social institutions. There grew a beautiful maiden in a sweet mountain valley; a greedy father gave her in marriage to a dotard for material considerations, and shu disappeared one evening smidst the iotness of the adjoining tank, preferring death to such conjugal nnhappiness. Here was a theme full of pity and sorrow and it was worked to such a pitch of auffering and softened with such tenderness thatit was difficult to restrain one'e teare. Here was intrinsic merit enough to justify further interest and enquiry; and there was the additional circumstance that it was maioly io directions somewhat slien to the history of Telogu literature. Telogu poetry was being enriched by new currents of feeling and workmanship, as the resolt of its contact with the rich treasures of English literatore. And none interested in the subject of Telugu literature, or in the infloeces of English on indian vernacolars could afford to ignore such striking tendencies, especially at a time distinguished by a widely-felt desire for the improvement of those languages. The hallad was from the pen of Mr. G. V. Apps Rao, of Visianagram, a Telugu scholar and poet of considerable ability and repute, who had long been endeavouring successfully to introduce

new impulsea into Telugu literature.

A review of some of his recent productions in evene must thus be of considerable value for a study of some of the possible developments of Telugu poetry in the flutre, and more generally, as affording en instance of literary evolution, in obedience to external impulses of a powerful and desirable type. In a country in which progress is retarded at every step by the purblied champions of conservation, it becomes almost a duty to well.

come such well meaning reformers Profitting by the literary models of an alien toughn other than Sanskrit is unfortunately an nofamiliar process to every one of the numerous vornaculare of the land, and the first appreciable unovations are to be traced in movements of this nature, which have come into existence only within the last few decadee

It is idle to deny the existence of hallads in this land. Many a wandering ministrel may be seen singing the deeds of old chieftains to groups of assembled villagers onder the spacions chade of the benyan But we believe, the ballad-form has been used with undoubted literary value about it, for the first time in Telagn literature by the post bere When Bushop Percy ventured to publish the Reliques of Ancient Poetry he thought it necessary to put in an epology to the preface for having concerned bimself with what may be called "vulgar" literature It is significant that nobody should have bad the courage to do so for Telugu ballad literature, even with the expression of some ecspticism as to the wisdom of each a procedure

Acursory examination of the ballad referred to already is sure to reveal ite etriking literary merite. The poem seeme to open with e endden onthurst of tinkling silver belle arrecting our attention, attuning us to a sympathetic enjoyment of what so to follow Though the poem represents a reformed type in literature, there is a rare and loving insight into the pions Hindn rites in which the youthful herome finds consolation There is a true knowledge of the playfol ways of childhood displayed in the explanat on of the mein cause of her misery after marriage wes the ridicule of her playmates, who accorned the lass that married a " grand-father" that abe could not bear Her parting words-she

was thought to be changing her home, but she wee really flying to the arme of Deethare a cindy by themselves in the delineation of the true ideal of sacrifice and epotless love that noght to actuate an ideal woman They are characteristic of a true. Hindn herome! "Brothers, let cervice to our dear father and mother be your constant care, do dot swerve from your faithful worship of our family goddees, the Mother of all Mothers , offer at ber feet the heet flowers and fruite of the eeason, when the members of our family come together so joy, let there he a thought for one who is not with them"-end the most tender touch of all .- "confer my name aca token of memory on one of your children" ehe disappears, we feel a true heroice has vanished from the stage, leaving the wicked world in derkness, for the absence of anch e light It is a tragedy that must come hume to every Hindu heart and cry for immediate redress. It is an artistic impulse that has been responsible for the production, but it will not certainly be maintained that its valua as lessened, by ite capacity for rousing attention to a grave social peril, that is responsible for not a little of the unhappiness around us

Nomerone social principles, full of the liberal impalsee of to-day are chilfully woven note the poems of Mr Appa Rao without the least detriment to their artistic epirit Orthodox Handa sentiment may etagger at come of the radical ideas embedied in his poems, but to the cultured mind they are significant of the now light that is illuming our social life. onabling us to perceive the wrongs of cantorieo The popular Hunda ideal of the divisity of the bushand, which though capable of some moral infinence does not certainly tend to equality in love, is soverely handled in the poem entitled Sovereigne.

There is in the poems a rude shock to popular sentiments as in the plays of been and Bornard Shaw, but the effect most be equally wholesome. "It is no id-world asying that the bushand is a God," says the hushand himself, "he is a comrade," and proceeds to offer his sponse not the jewels of gold which in a moment of femiline weakness she longer for, hat the inestimable wealth of his love.

The spirit of the social reformer is patent even in the poton treatment of the philosophical allegory of King Larana from the Gnana Variahla. It tures up the Kahatria ruler's love-experiences with a girl of the untoouchable class. It is terrible in its grim realism, and is as poignant in its emotional appeal, as it is fall of import te the social philosopher.

From such heights of sublimity there is an eccasional transition to the femiliar scenes of home-life. The poet sets out to string a few pearls together. The young Hindu hashand has returned to the village from his stay in Madras, full of the new apprit, cetting convention at defiance and drifting away gradually from the life of his people. There is a cartain-lecture; the wife administers a centle rebake : there is an expesition of the conflict between the new and the old, and at the threshold of great changes the post cannot help casting an anxions look at thu departing world. The youthful radical is warned against the possible deception of home-life in his over zealons pursuit of reform. Is it not possible to look upon this as a declaration of cantion by the poet himself?

The version of the Greek talu of Damon and Pithyas is a brilliant example of his ability in the easy and graceful narration of a ctory. Out of the very scanty material

afforded by classical literature he has evolved a poem fall of picture-queees and animation. The Greek setting is described with extranofinary viridoses, with a very fine sense of cound and colour. The island of Samos is there before as in all the glory of epring. Each starus is a complete picture in itself reminding one of some of the perfect landacape-painting of Tennyson in poems like the Palace of Art.

It is a similar love of nature that is perceived in the Songs from the Blue Hills, & miscellaneone collection of poems dealing mainly with life and accuery on the Blue Hills, lo " the sweet half-English Nilgiry air." A piece of striking merit is one containing a declaration of love at first aight. The heanty of repose which according to Lessing is the apecial province of painting and sculpture is enriously enough brought out here in postry, in describing the charma of the person to whem the lines are addressed. As they are read, there is a profound realisation by the reader, of the trath otterad by the Grack Simonides, that postry is elequant painting. Numerous other pieces of merit are found

Numerons other pieces of merit are manned the poets writings—the Telegravarid will probably soon have the privilege of reading them in a collected edition. It must be a test of no ordinary interest to examine them in detail and appreciate the variety of new olements that have here introduced into Telingn song. But enough has probably been said to draw attention to the success that has been achieved in these new limes of poetical activity. It is nely necessary to add in conclusion that there is in the pottes an absolute disregard of rheturical artificiality and poetic covertion, which have always here the bane of Indian literators and when will be so rath as

to forecast the scope and significance of this movement which has the gennine ring of poetry and applies itself to the treatment of the primary emotions of humsuity in a commendable spirit of high seriousness?

OOTAGAMUAD, } 11th June 1913 }

P SESHADRI

A COURSE OF STUDY IN ENGLISH HISTORY FOR THE HIGH SCHOOL CLASSES

"OLD order changeth, yielding place to new" is a time honoured saying, which characterises every stage of human develop ment and thought. While this is tree in all aspects of human experience, it is none the less so in the field of education. Progress end not stagnation, is the key to success and without change there can be no progress. We clearly see hefore us in our every day life what changes have been overtaking us, consciously or unconsciously, end how she have to edjust ourselves to those changes though a certain degree of inertia in to be overcome at first.

Coming to the point, we find that in the field of aducation, every year brings along with it now mothods of instruction which, of course, take some time to spread to the messes. Whoever, of those at least engaged in the teaching profession, does not know that in English the direct method of teaching has taken the place of the translation method, in mathematics old methods have given place to the introduction of graphs and in History and Geography the old chronological and the "where and what?" methods have been replaced by the modern and more rational once in the light of psychological investiga-

tions? But still, in most of the schools, much difficulty is felt, especially by those who are passessed with a conservative spirit, in following those methods, partly owing to the fact that they are not yot fully aware of the wholesome results of such methods

Reserving my observations on the teaching of English and other subjects to a later issue of this rearnal, I shall take this opportunity of throwing a few suggestions regarding the teaching of English History according to the most modern, approved and common sense methods From my own experience as a History teacher, I can, with a certain degree of a knowledge of existing conditions, assert that most teachers of History do not reelise the importance of, sud the necessity for, e well graduated syllabus in History, for which they are only partly responsible If, et all. there is any subject in the school curriculum, ppon which the Headmaster looks with a step motherly affection, it is History The general tendency is to relegate it to an ios gnificant place in the curriculum and a consequent disgust for the subject is often the petresult Further History teschers are not specialists but those for whom no other work can be found A fair percentage of schools have in fact no syllabus and the few schools. that have an apology for a syllshus, have done it in the most slip shod and backneved lines The essential difference in History teaching between the old methods and the modern ones, consists in that, in the olden days, there was too much adherence to textbooks, but in the modern days, a happy compromise has been effected, on the German lines, between text book and oral instruction. The teacher, who sets himself to frame a well regulated syllahus for the High School forms. should not senore the fact that he should give

and Mathematics, a fair amount of practical and sketches of battles and events. work should be set. It has been well said Having chalked not the lives which a good that 'what the benches, the test-tube and ayllabus will take, I shall here stop with a other opperatue are to the science student, so course of studies comprising all the above are the documents, maps and other sources to requirements and covoring at precent the the History etodeot; and as such the syllahus Anglo-Sexon and the Norman periods. Of practical work which will consist in the be safely left in the hands of teachers.

greater prominence to topics rather than to students' working upon the documents as single events contring round a certain per- thought-materials, drawing up of lines of source or a locality and that, as in Science time and preparing genealogical tables, plans

should be fromed no the topical method, course, I have not made any distinction here giving a certain degree of prominones to between detailed and non-detailed as it may

4. Outline School of Mr. J. J. W. Will Wildow on the Augle Saver and the Manuau Periods.

An Outline ocheme of Work in English History on the Angio-So	tton and the N	orman reru	
Topics Headings.	Praiods to be devoted	PRACTICAL WORK.	
I. (a) History of England-History of the tand and not of the race-lufteneed coolty by the deographical formston and situation if Great British	2		
(b) Political, strategical, and commercial effects of the Geography, internal as well as external, of the Islands	1 Pi	yeical Map	oi
Period of Inwritten History. Goostry before the emiting of the English, 303 BC—410 A.D. Period of Inwritten History. Goostry before there New Brockstone with the intercourse of Britain with the civilised world, from the continent (Chesholish).	1	•	
(b) Roman Erikain Cuesar's Invasion and account of Britain from original sources as far as possible (Crewar's Cellic War, Ble. IV & V). Roman Compets of Britain-Linds and texture of the Roman occupation. Effects of their occupation and their departure. Compare with the English occupation of India.		an of Ro	mat

111. A. The Making of England. The coming and Ohristianisation of the English, 410-979 A D.

1. (a) The Eoglish invasion. (b) Their German homes

2. Their Settlement. . (a) The English after the conquest. (b) Kent and the convereion of the English.

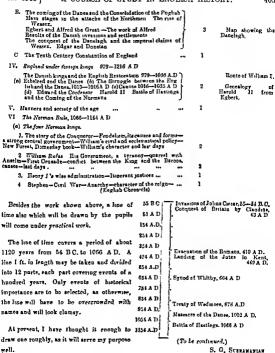
8. The Strife of the Nations,
(a) The Supremacy of Northambria and its character 593 Celtic and Roman Christianity-Synod of Whithy.

(b) The Supremacy of Mercia, 685-825. Offia

Man of the English German bomes.

> Map showing the settlement of English.

Map of Roman Britain addicating the chief roads.



THE UNIVERSITY AND THE VEENACULARS.

MBANKS to the were discussion at the last meeting of the Scattachout the subject, but position of the rezusculars in the corricular of studies prescribed by the University of Madras has become one of the burning topics of the day. But as with so many other "burning topics," is this constri, the issues involved are not clearly perceived even by those who are "quoronaly engaged in the controvary. Hence it was well for as to know what are the real questions at insee, that we may form our opinions and to question and express them and thus help to crossia a wall-informed politic opinion in the place of the aparient which peace for it. It is the simp of this paract to try to do this.

We er told that nador the old regulations of the University, the vertacular compiled a prominent place from which they were hasted down by the rathliese bands of the frames of the own regulations. This may be rheard; but is not trath. For the study of the vertaculars were more compalory under the old graters. Nearly 40 per cost. of the graduates of the University graduated with this rescond language, at Sanchiti and they were parhaps the most brillion graduates. Some other students took French, Latin, and other languages, at this second language, these life about to study the bring most the study of the vernesulars optional for the first time and other new regulations.

When the new regulations warn first passed by the University, thay made no prevision for the compalatory study of the varancalars at all that relepted them to a subnodinete position emong the optional groups of embjects. This fast, no doubt, defracts from the grounteness at the place of the present of the present of the present passed by the advocate in the Series of the present ayaken that the study of the versucalars has improved ander the present ayaken that the study of the versucalars has improved ander the present ayaken. That may be a fact, but we do not now it to the Scoute but is the Ourremovated Madras who

introduced vernacular composition as a compulsory embject in the curriculum for the Intermediate examination.

The the new regulations as encoded by the Government would have made provision for that compolary adoly of the veraceiars by all the aspirants for the degrees of the University—thing which was not dreamt of under the old regulation. But an agilation was started in the Senste by some of those very Fellows, whose enthosiasm for the vernezulars is now unbounded, with the object of introducing Sankrit stratistion as an afternative subject for veraceilar composition and of reducing the percentification and of reducing the percentifications of the object. This fact is not very regulation that consistency of the enthusiasts for the verne-

Hence, under the present system, as far as the University is concerned, the large majority of adopted studying in the Intermediate classes learn extraction composition, except the few who learn translation into English from a classical largester. Besides this, provision is made for the study, by atodenis who ere interested in the asplice, to the varancolars by giving them a place in the optional groups. The new regulations have not had a sufficiently long less of life yet for not o lodge fairly of their working hat the number of students testing up the vermeature as optional subject for study in not so disappointing as one may capped.

I do not retar to the position of the vernewless in the school curriculum because the
University has preciselly nothing to do with it
now. The School-Leaving Certificate Scheene as
elmost completely supersaded the Matriceleious
assemination conducted by the University. I
myself strongly hold that particular estantion
ought to be paid by the boys white of school to
their versuculars. If it he not done now, thirty
ought to be mended. Dat if they are to be, the
proper sulbority to do so in the Government ed.

not the University Carlonsly enough, the responsibility for the school carriculum, such as at le, is also laid at the doors of the University

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Having now described the present eyetem, I may make an attempt to examine the charges made against it Friet, then, it is urged that the present evelom has reduced the number of students taking the vernsculars. But it is conveniently forgotten that a much larger unmber of students than under the old eyelem learn veruecular composition. And it must also he remembered that those who study the verna culars-end they are not an focusaderabla number-do so because they feel gennualy intersoled in the enhance. And it will be conceded on all hands that it is far better that a few such students should study the vernsculars than that a large number of them study the veroaculars because they cannot help if

Agent, it is also urged that the non study of the verraoulars will make our students denationalised. I do not know in what sense they use that word. If hy that word they mean that our students who do not study the verneculers will become less patriotic and more alten in their babits and manners then those who study them. I flatly contradict it-witness the hundreds of graduates to Sanakrit who never studied & verpacular book either at school or at college and who are no whit less patriotic then their contemporaries. And what is there in the vergaculars which is likely to make a man patriotic ? I obelience these enthusiantic advocates for the remaculars to produce one genumely patriotic passage from classical vernacular literature. But even granting for one moment that this so-called densitions listion is likely to take place, is it each a real danger ?

The question is one which must be frackly faced and successful. For an anvillingness do so to hampering our progress in all directions. The question put in sucther form is this—dra wa to continue to be picturesque, curious, in a word.

to be the museum of the world, wherein people can see all grades of civilisation from the fifth century before Christ? Or, see we to march forward on tha path of pr gress and take our rightful place smong the estimos of the world? The question, put in this form, admits of only one answer. But the difficulty comes in when people refuse to see that the question is really the question as really the question about denationalisation, put in enother form Further he wout he an enemy of progress in India who does not want that every unit of energy available in the cannity should be made for the spread of Western ideas which can be done only through the endy of Western literature.

Bet by the word 'deestooslised,' they may mean that our stodents will become urrel groot at they do not study the vereacolars. So much contain the best things and written shout the accessity of our stodents being as brought op that they meat not cesse to be religious, that I'must hag leave here to express my amphalic protest examine the attempt to mer the true adolt of education. We coght to be more accross to make of our stodests "houses, much, and useful citizens, than to make them gibly talk hand the Dhagwad Gita and the Upsouthads which have baffled the intelligicate income make them.

Another cry which is raised against the naw aystem what, if our students do not study the vectanulars they will find it impossible to commonsate with tha meases. There is no doubt that all of as want that our educated most coght to he able to indicance the masses which they can do, only it they can talk to them to their own language. But the difficulty comes is as to the means by which this very destrable object is to be attained. It is fairly evident that a student while leave vertacellar composition must be well able to express his thoughts in his mather-tongua fluently and courstely—I am only defining the art of composition—and critarily not may be a red for composition—and critarily not

loss able because he has not atudied the cleasical works ie his mother-tongue which are usually written in a language which, in the upinion of a distinguished Tamil scholar, can never have been that of the people. I will go further and say that the more a man steeps hunself in the classical works of his mother-tangue-I speek only of Temil.-the less easy it will be for bim tuschieve this object. I speak with some keawledge uf the pedentic Tamil which our Puedits are never tired of neing. So, if what we weet is that per eludents should have a werking keowledge of their vereaculars sufficient to enable them to make themselves aederstood, the present system nuder which they learn verescular composition is the best that I can think of, if certain necessary phanges are introduced to the method of teaching the asme.

I thick I have now must fairly all the objections which are levelled at the present evetem. Bot there are certain positive arguments in its favour which I will advance, For one thing, I aver that our stodests, after having reached a certain stage in their edecatinesi career, should have absolute freedom to phoose the subjects of their study. Is so for an the present system secures this liberly te the stedent, I claim that It is an improvement on the old. And any attempt which is made to increase the scope of compelency studies is an attempt to set back the bands on the clock of educational progress in this province. For chrious reseces, the study of English most be compulsory as also that of a scientific embject. Hence it is evident that, unless the student is to he relegated to the unenvishle position which he occupied under the old scheme, the study of the verpeoulars caunot be made compulsory.

Again, if the study of the verusculars is really so seekenting, so useful and an necessary as it is claimed to the by their enthusiasts, we can well rely on the students and their goardines to sentra that a targe number of students take in the study of the verusculars, if they do not do so, then

** ** ... -

I hold that it is a strong argument that extravagant claim are made on behalf of the verneculars. But there may be others who went this, though the stedy of the verneculars may not be all-important, some at least of our steders should study them. To them, I am sure, the access, hinted at in an earlier part of this paper, that it is better that a few who have really a tests for the study, should do no, will appeal.

Again, the represely has been east open us, not mithat has been imparted to us for the last fifty years and more has not produced many abolates amongston who has not produced many abolates amongston who, he their reserves, here contributed to knowledge of the world. If that represely have been precision for the world in the represely septimized the produced with the programment of their Colleges well egolpped to earry on researches in their chouse fields of knowledge.

Agaio, we, in lodis, are all looking forward, with longing eyes, for the day when lodie will have a common language. I know I am treading oo delicate ground, but I venture to express my opinion that English has as much chance as any other language of becoming that one language in this country. And I can imagine no better fete for India. If the day comes when Eeglish is the common language of the people of Iedis, the day of the political and social regeneration of Indis exenet be very for from then. Sech being my firm conviction, I strongly deprecate eny attempt to reduce the importance of the study of English in the carriculum. Aed the naturel result of the sgitation for the compulsory study of the verneculars will be that,

There is one consideration which has been overlooked by these geathered and which thores's curious light on their appreciation, of the relative importance of the languages of this land. It will not be actionally disputed that Searchit is older than my verocciter in this constry and that all the Drawidian vereacular literators with which alone we are concerned only here drawn their inspiretion mainly from Sanskrit. Again, the study of e classical tangn age has been recognised both in Western constries and in other Universities in India as a valuable part of a student's odecationwitness the position of Latin and Greek in the older Universities of England and the position of Sanskrit to the Colcetta and the Bombay Uni versities And yet, what do we see hare? Not a word is said about the necessity of studying Sanskrit. Oe the other haed, it has been made abnodestly clear by how that the enthusiasm of these advocates for the verescelars does not extend to Sanakest. But it our object is that the education of our students ought elec to lenories are this escalareesse as ebelser ideas and ideals. I can imagine nuthing better calculated to achieva that object them a study of Sapekrit. And if Sanekrit can be introduced into the compolency portion of the curriculum without effecting the position of English therein, I personally will vota for the change

It is an irony of fate, that while civilised consires all over the world are preferring the useful in education, we are choosing the picte resque; while they ere preferring the progressive, we ere choosing the retrogade, sed while they are preferring the ective, we are choosing the contemplative The cry all over the world now is for scientific education and more of it. Bet we tern our area backward and wish to resuscitate tanguages and titeratures which cannot bate on in our march of progress but which may retard at We should wish that as large a sumber of our students as possible aboutd take to the study of the bemso, physical and neteral sciences that they may help to create in this land the true scientific atmosphere which is the mercus um of progress in the industrial, adn cational or social spheres of sction. But say would be aducational experts west our students to discuss the beauty of women, the intrigues of petty Rajas, or the leaccurate blatories of kiegs

and knegdoms or the perpetual intervention of the thousand and one gods of the Hindo mythol ogy in homen effairs, in en impossible laeguage Such, at eny rote, so the theme of most of the clessicat works in the Tamil language

I should consider myself hadly misunderstood, if I am taken to say that the present system cannot be improved. I strongly bold that it case be end that it night to be Aed I have the enthorsty of some of the members of the now famous Committee of the Senate to state that the Committee itself feels that some improvements wilt ere long baye to be made in the system I amonty sesisting that the procupls of compel sion in the study of the verpeculars must go,

As I have eard in another part of this paper. the study of the veresculars at school most be considerably improved Apart from the reason already advanced that our students must have a working knowledge of their vernsculars, I also hold that if the verpeculars are to have a fair chance, the students should have an opportunity of ledging for themselves as to the desirehility of stedying them which they will not have, nelsea they are sotroduced to the study of the verns. enters while at school This paper is not concorned with the means by which this is to be affected, for at as a matter which rests with the school authorities and the Education Department.

But, as regards the subject of vernscelar composition la the curriculum at studies for the Intermediate examination, the Univerany can and onght to effect some improvemanta in the method of teaching the same Many such may be suggested but perhaps the most effective way of improving it is the prescribing of certain text books which the aindrois must be made to study with the same attention which they bestow on books prescribed for nen-dete led study to Leglish This can be ensured by Including questions bearing on the vabjert metter drelt with in those broke in the less able because he has not studied the classical works in his mother-tongue which are mosally written in a language which, in the oninion of a distinguished Tamil schular, can year have been that of the people. I will so further and sev that the more a man steens himself in the classical unche of his mother-tengue_t enset only of Tamil -the lass easy it will be for him to achieve this chiect. I speak with some knowledge of the nedentic Tamil which our Pendite are never tired of sainer So if what we cant in that nevertadents should have a working knowledge of their verseculars sufficient to enable them to make themselves anderstood, the present system under which they learn varneraler composition is the best that I can think of, if certain necessary phanges are introduced in the method of teaching the same.

I think I have now mat fairly all the objectings which are levelled at the present system. But there are certain positive arguments to its favoor which I will advance. For one thing, I ever that our stadents, after having reached a certain stage In their edocational career, should have absolute freedum to shoose the sobjects of their stady. In so far as the present system secores this liberty to the student, I cleim that it is an improvement on the old. And any attempt which is made to increase the acope of compularity studies is an ettempt to set back the bands on the clock of educational progress in this province. For ubvious ressous, the study of English must be compulsory as also that of a scientific subject. Hance it is evident that, unless the stadent is to be raisgated to the pranviable position which he necessied under the uld scheme, the study of the vernaculars caunot be made compulsory.

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Again, the reproach has been cast open us, not without reason, that the adocation that has been imparted to a for that last fly years and more has not produced many achilers emospit us who, by their researchers, have contributed to the howlindge of the world. If that repress he is to be semoved at all, our endednts must begin to specialize fairly early on that they may good of their Colleges well equipped to carry on researche is to thirt moone failed of townidge.

Agaio, we, in India. ere all looking forward, with looging eyer, for the day whee India will heve a common language. I know I am tecading on delicate ground, but I ventors to express my opinion that English bee as moch chance ee any other language of breoming that one language in this country. And I can imaging no better fate for ledis. If the day comes when English is the common language of the people of lodis, the day of the political and social regeneration of India cannot be very far from then. Such being my firm conviction I strongly deprecats any eltempt to reduce the importance of the study of English in the corriculum. And the netural result of the agitation for the compulsory etedy of the variaculars will be that.

There is one consideration which has been over-looked by these gretheneo and which there as certical light on their appreciation of the relative importance of the languages of this land. It will not be seriously disposed that Stankitia unides than ony variancelar in this country and that all the Drawidian vernacular literature with which alone was econocered only.

of existing institutions. At present, the educational activities of India see-with cortein very commendable exceptions-meinly confined to the Government and to such States as this of Bhaypsoar the great mass of men in the edn cated professions and the land holding industrial, and commercial classes herdly participate in such activities. Of coorse the Government as also many of the Netive States are not douge as much for edocation se the Governments say, of England France and the German Empire do for their peoples, but I sm sure I sm not far mistaken in saving that the proportion of private and local expenditure on education to that of the State will he found to be much emaller here than an the countries I have mentioned. To take one instance only-a rather extreme instance it must be sa dthe London County Cooncil spent last year about six million pounds starling on Education, opt of which the receipts from Government came to about 11 million, the rest of the cost felling on the general body of the rate payers of London The rate for Education, which was 4d in the pound when London was first given complete local self povernment, now stends at the high figure of le 91-2 in the pound . There are many directions in which cities and corporations and muted bodies of rich and educated people could work with profit to the country and credit to themselves in the field of education. Elementary as well as andus trial and technical schools are required to meet local wants and to elevate the condition of the masses, and denominational schools for primary and secondary education on a religious basis are also needed amongst many communities Neither the Paramount Power nor the authorities in Native States can so thoroughly understand the local wants of soy place or the needs of semall commonity as the people themselves, and in the A present state of our country it would be neither expedient nor wise for them to trefitote religious or even moral tostruction on nov denominational basis. I do not went to belittle the efforts that pur people have already made in the cause of edu

cation, het I beertily wish that such efforts may be more continuous and more afternous. It this countection I may be permitted to congratulate the citizens of Bharmager on their formulating a small but sound acheme of indostrial education to commemorate the great services rendered to this Siste by the Honourable Mr Prabhashenker Pattane.

In the second place we require the edocational institutions which we already possess to be more efficiently and more intelligently managed. There ought to be greater co-ordination between our arms and the system of education and adminis trative method which we adopt and something must be done to check the hope waste of intellectual effort on the part of our boys on account of our present teaching methods which are not only unstaited in meny ways to our circumstances but which would in great part be considered effete under any circumstances This requires an elect watchfolness and a sound educational policy on the part both of Government and of the educational bodies formed by the people, it requires also-in a greater degree—the reform of the teacher in almost all grades of schools Something may be done to attain the letter end by metitution Teachers Schools and by selecting as teachers candidates who give promise of real teaching power Bot when all is said and done the frostfulness of our methods will largely depend on the personality of the teachers we employ, and this personality can reach the needed standard of excollence onty by internal reform. We want our teachers-both elementary and secondary-to form a body of devoted persons who would keep up their sent for education throughout the remed of their employment who would be willing and eager to master their sobjects as for as their power can go to amprove their deficiencies in the manner of teaching and to find out methods which have been spproved by long experience in countries more fortunately encumstanced For these purposes it as Decessary to sostitute Trachers' Societies and Teacher' Libraries ererywhere in the lead; and condaily as I welcome this Student' Conference, I cannot help regretting that there is not held side by side with it a "Reacher' Conference which could help us in strengthening thurpesistion of our teachers, in fortifying their courage in the discharge of sealones and often thanklers teak, and in improving their methods which they have been forced to adopt menty at he pinaward.

It is not relevant, in my opinion, to enter here into any disquisition shout the deficitive property and pature of education, and I will not discuss at any legoth the difficult question of the contest to be assigned to thu term. If only a few of the opinions on this second point wers taken and nut together, it would be found that almost everything fundamentally effecting man and his affairs and his activities has been at one time or other incleded in the term education. Besides connoting the gaperal intellectual dayelopment of the child and the adolescent boy, the term has been used to signify a high degree of cultivation of literature and of the erts and sciences on the part of the young men. Efucation has also, in somn quarters, been identified with knowledge of the technical arts and mestery of industrial skill; and those who take this view of the goal of education would like to see the finished products of their system taking up at once some industrially, economically or professionally useful pursuit. Others again have laid chief stress on the formation of character; and would desire the young man of education to take his place in society as a law-sbiding, Godfearing citizen or to form a healthy political unit of a harmoniously growing nationality. If only a small part of these objects, and others such as physical culture, more to he realised even spproximately, it is evident that the chief portion of the resources of the State would have to be devoted to the carrying out of educational policy slons, and the leaving age of the pupil would have to be very considerably increased. We should therefore rether take our existing educational

spaces, defective as it is, as the fundamental fact of the situation, should see in what directions it requires reform and extension, and try to derive ways and means for such urgently required changes as would not either severely tax the resources of the State and the people at large or require our present mathods and present tembers to be directed whelly or even is green system.

Coming now to the educational activity with which we are immediately concerned. I have to phaeren that the main purposes of such gatherings se this are evidently the promotion of fraternity and good-fellowship amongst atudents and the instilling into their minds of some idea of their membership of a society to which they awa definite duties. These objects of education, which may be said to form the social or parbaya the national sids of the content of the term, have been emphasized by a school of teachers which has lately come into prominence; and one of the must eminent of them, Prof. Eucken of Garmany, has laid it down that the great aim of education should be "to treat the pupil as one who is called to the task of a good life and the bearing of high responsibility." But this sim has also been steedily kept in view by s imost avery great writer on the subject. Herbert Spencer is never weary of criticizing the ordinary school and college corriculum for its otter failure to recognize that the educated pupil was destined to become a true citizen and to carry on the national life of the country. Bain remerks that " as the supports of life and the pure sense agrecables and exemptions come to us in great part through the medium of fellow beings, the value of the social regards receives from this cause an enormous sugmentation." "It would appear strange," he therefore says, " if this motive could ever be overlooked by the educator, or by eny onn; yet there are theories and methods that treat it so of inferior secount." But almost all tha older writers, and Encken bimself-unless I am greatly mistaken-ocunsel the instruction of the pupil in such sentiments by the teacher bimself; and lay it down that this should be done by in direct methods and hy collateral efforts, so as not to interfere at all with either the meotal develop meet of the popul or the moral discipling of the school Thus Bain observes -" the soteose emotions, from the very fact of their intensity are oneu ted to the premptings of severe culture" He dwells on the heighteorog effect on the pup fa mind of the general multitude, and says that " any effort made to the eight of a host is by the circomstances, totally eltered in character , and all lmpreemoos are very much despeced in and concludes that " if this stimulas were always to colocide with high meotal culture the affect would be something that the smagnation hardly dares to shadow forth It is, however, e power that may be propitlated by many different means, tooluding shams and evasions, and the bearing upon culture as only occasional " Rence such thinkers, in the fear of producing only superficially educated pupils or pupils who would assume the airs of sanctimonious little men of the world, would conflos the imparting of such education almost exclusively to the teachers' part , they either do not mention any great efforts in this direction on the pupils part or view them with distrust and disapproved The extreme position on the other side-the doctrine of the social education of the pupil by his own social efforts-can be expressed in the conces language of Prof Dewey : "The only way to pre pare for social life is to engage in social life To form habita of usefulness and serviceableness apart from any direct social need and motive, and spart from any existing soc al situation is, to the letter, teaching the child to swim by going through motions outside of the water. The most indispensable cond tion is left out, and the results are corre spoodingly futile "

It is not without d ficely that a choice could be made between the opposing methods of deref oping the social side of education which I have here roughly sketched Bot I believe, fooking pathwilarly to the circumstances of our country.

that it would not be necessary to do so, and that the best results could be achieved by doly combining the two methods as far as possible. The teacher notwithstanding the fact that his ordinary duties are cogressing enough, can yet do something to inculcate the high responsibility of social fife by showing that he has a high ideal of his own duties in the corporate life of the school By a thorough mastery of his subject, by practision absolute justice between hoy and hoy and hy employing patience and fact to dealing with the backward and the rafractory, he can set before his popils the exempla of a good life and heighten the mo of tone of the society formed by them, which is distinct in kind from family life in the range of its social activities and in the power of calling forth the corresponding virtues. The teacher can also appeal to sociel and patriotic motives as occaaton arrass in the copres of his lessons. The heads of schools also can contribute something towards the same result by the provision on favourshie occasions of direct social tasks which are commensurate with the state of development of the popula m'nd The allotting of joint lessons in subjects of study as well as experiments in anhjects oot in the curriculum, games and social and other gathers go may be mentioned as examples. Fach school shoold try to develop its distinctive social life on its own lines, and on occasions like the present the various lines may be brought together for comparison, with great intellectual benefit both to teacher and pupil. The earlier the child is taken up for social education the better will it he fur the development of the social virtues , for afterwards the growing difficulty of the subjects of atudy and their arecialization in the higher forms กับ แต่กอดไป การเกิดนักที่เกม โดยเกิดนักเหม tend to serarate student from student and make the task of social unification proportionately harder. But in all class teaching in the matter the appeal should be indirect any direct lessons on the civic virtues besides being generally devoid of interest to the young boy, are apt, in my opinion, to binder the proper davelopment of his rowers of observation

sod thinking. Formal social meetings also require great skill and tact on the part of the heads of schools to be of real use to the pupils.

The great stumbling block to the way of national harmony and social co-operation is eloofness of mind or lotoleracce of spirit, the presence of which is often manifested in a spirit of lotenee though perhaps illiberal fondness for one's peculiar ideals and meoners. Such alcofoess or intolerance frequently originates in misunderstandings. which many often be innocently conceived and the very conception of which is sometimes not even consciously entertaiord. It is to my mind the primary duty of every citizen of a State to try his best to remove such hindrances to unity by cultivating a broad and imaginative sympathy with other units of the State who may happen to belong to different provinces or castes or creeds; and I do not see why this principle should not be acted upon in our educational policy. I abould conclude that, with the saleguards which I have pointed ont sheve, the practice of social aducation may be introduced into our theory even almost to the estent suggested by the words of Prof. De wey. In the case of our land, the need for social co-operation in all grades of hife is forther accentuated by the vast extent of our country and its political and social conditions for a thousand years before tha final establishment of British supremacy. We cao? oot minimize the fact that Indie is in many respects a continent, and that to get a barmoniously welded cational life in it is a matter of considerable difficulty. But the events of the last generationare full of cocouragement to those enthusiests who are hoping and striving for social and political unity. The benign rule at the British Government for over a century has gone far to heal the wounds of the previous strite of creed against creed and of province against province; and contact with Western civilization has gone far to strongthen at any rate the political and social ideal of nationality. This swakaning movement would. I doubt not, have come to as in the fulners of time ; but I do mean to say that British methods of administration and British views of general

education have evidently strengthesed and accelerated it. If therefore we attrice with seal and with tact the idea of social harmony and national only, which we feel growing a satrong in our mind at the end of this generation, will andoubtely be left stronger in the minds of the countrymen at the sod of the nest generation.

As I have said the practice of social education through the direct sgency of the pupil himself is e product of late growth, it has come lote prominence only during the last twelve years at so, sod is even now regarded with distrnst by some eminent edocationists. We should therefore not be too sanguine about the immediate results of such conferences; and, as a necessary corollary, not forget our goal and suspend our efforts from one year's and to another year's end waking up only for two or three days. Persevering and streamous efforts will be required if the movement is to be carried up from the theoretical stage to a stage of practical fruition however meagre; and the orgrainers, on whom will be thrown the hurden of making higher and more lotelligant afforts year after year, will have to be careful that the movement flows in its proper channel and does not impede mental development. But the results promised are so wast and of such vital importance to our social unity and our national uplifting, that the florts appear worthy the making. If even to England and France the movement is considered by many to be more the outcome of a dream than a reasoned reality, let us say in the rousing words of Prof. Fiedlay, that it is a dream which st sny rate " provides a ground of faith ; faith io s social reform which finds its surest and speediest barvest in caring for the young ; faith in the coming race who will take op the hurden of the sgesst the point where teacher and parent lay it down." In the faith theo, that this gathering will help avar se little towards the development, in the miod of the younger generation of the social ideal on whose fruition depend the strength and beauty of natiooal tife, and that it is merely the precursor of stronger and mare frequent efforte in the same direction, I beg to dactare this Conference open-

EDUCATION IN THE MAGAZINES (INDIAN)

Educational Progress in the United Provinces.

Between April f, 1907 and Merch 31, 1912, the lotal number of educational mattintions in the United Provinces increesed by 921-from 15.613 to 16,563. Peblic restitutions contributed only al to this increase. The number of echolars uncreased by over a lakh-from 6.06,174 to 7,12,000, the incresse heing shared by both peblic and private institutions The Director of Public lustroction says that coosidering the lack of funds for primary education and the succession of calamities that have afflioted the Provioces, it is a matter of surprise that the numbers have risen as much as they have done. The percentage of acholars to the population of school going age has risen from 8 47 to 10 06. For boys it has risen by nearly 21 per coot from 1533 to 17 79, and for girle by '51 per cent from 1 16 to 167 Such enthesizem, if the word he per missible, as these figures may generate to one is however, immediately checked by what Mr. da la Foore says in the very next sentence, vir, 'It shoold not be averlooked, however, that the real incresse is not sa great as it appears, for the population on which the percentage has been reckoeed this year has declined' Of all districts Bensres has the largest percentage of attendance of boys of school going age, the figure being 4233 The highest percentage of girls at school is claimed by Agra with 516, Dehra Dao and Nains Tal, where the percentage is inflated by the number of European boarding schools, being excepted fo fourteen districts over 20 per cent of boys of school going age are at achool, while in niceteen the percentage of girls is still less than one

The total expenditors has rasen from R.-748 58 50 in R. 1,07,028 53, or by 65 per cont, and the cost per lead of population has increased from 23 hours to an tid. Again, lest the numery reader run away unduly slated, Mr ds Is Fesse discloses the tree fact by obsering. But the figures are described, since the normal increase by a great from the Gosern meat of India at 13 likhs, a large part of which was catually spent before the close at the 'period' Collegate edocation aboveled nearly for lakth worre than in the persons fire years.

Thereen labbs muts was spent on 'general' schools, while the expenditors on special schools rose from Re 3 00,152 to Rs 5,44,401 There were considerable increases under duertion and managerice Schularshipe absorbed Rs 80,000 more. 'Bet the most remarkable increases are shown under buildings and 'apparatus.' Expenditure from public funds rose from over Rs 49 to over Rs 67 lakbs ao sucrease of 37 per cent 'Private expenditure "as larger by more than a half, and the income from fees grew from Rs 1351,184 to Rs 20 50 005, representing about one third of the total direct expenditure Let this he coted by Angle-Indian critics who in ignorance of facts talk of cheap fedian education and the necessity of making the parents pay more in the shape of feee, phistons of the strain on their often meagre resources by the scale of fees now in force. The direct expenditure on collegiate, secondary and primary edecation lest year was R. 1391901. Rs 47,06,212 and Rs 5,44 401 respectively The comparative amaliness of the last figure shows how much room there is for larger outley on elementary education. While the expenditors on collegists adocation is one fifth sed that on secondary education is so much as three fnorths of the whole, the outlay on primary education is a meagre one twelfth of the whole The reenrrieg grants to aided colleges have incressed from Ra. 80,157 to Re 1,41 460. The direct espendi tars on Government high schools has risen nomi nally from Re. 48,700 to Re 7,38 200, but this iachiefy owing to the provincialisation of District Buard high schools and the resumptions made from District Boards to meet 'the charge' The recurring expenditors on Furopean schools has vesen from Ra. 1,91,258 to Ra 2 96 167 The total annual grants in aid for Ei glieb schools have incressed in five years by the comparatively small sam of Rs 50,000 odd, the respective figures being Re 156,000 and Re 206 514 Nearly four takha were paid to sided colleges during the five years as non recerring grants. For verna enlar edecation the following recurring sobventions have been made to Datrict Boards -Ra 10 000 for additional Sub Deputy Inspectors . Rs 5 000 for re-grading enteling post of Sub-Deputy Inspectors, Ra 10 000 for re grading vermerular secondary school teachers and Re, 25 000 for improving the pay of primary school teachers In addition the Boards received a non-recurring grant of Rs 50,000 for buildings

He 1911 12. Its 12,91,000 non recurring, was given by the Government of India for education of all kinds, a recurring grant of Re 7 lakha has also been made; the Government of India have farther given 16: 60,000, recording, the farther interest of the farther of the farther improving the pay of secondary aird English eachool teacher, and a non-recorring gratur 61, 33 takha for college and school hostels. Besides, the University has got fits 3 takha, non-recorring, and Re 45,000, recorring, to onable at to squistisuff for technique and research.—The London.

The Poetry of Childhood-

The inaggaral address of the Teachers' Association of the Teachers' College was delivered at the College, Suidapet, by Mr. P. Serbadri, M.a., on "The Pootry of Childhood," Mr. A. Maybew, Principal of the Cellege, necupied the chais.

The lecturar said that the study of a uhlid's tamparament and the atmosphere in which it had been reared, must have as much interest for the teacher at its psychology. It mort be a great lospiration for him to know that the childran entrusted to his cars have roused the raptures of many a poet. Even a currery exemination of the world's poetry was enough to convince ona of the education that childhood had received at the hands of poets. The theme was as old as Homer. There were some who had devoted special attention to the study of noetry and prominent among them were Blake, Wordsworth, Stevenson, Swinburg and Longfellow. The extent to which the love and worship of the child had been cerried on in poetry might be indicated by Lowell's remerks which preached love, hope and poace. The innecesses and branty of childhood. their suggestions to postry had been appreciated by Tenuyson, Longisliow and Blake, Wordsworth and Stevenson gave an appreciation of the postlo nature of the child's mind itealf. The lectorer then narrated the names of poets who referred in effective terms to the feeling, effection and triendship existing among children. The earlier poats, aven Shakerpeare among them, gova a gloomy picture of the school boy, but with the introduction of new mothods in achoel there wee hetter appreciation of the pleasures of school life. Hood and Whittier ware particularly sulogistic in their references. There was very often a plerrure expressed that they should get back to school and he boys egain. Rood went so fer as to say that he would do it on any terme, and that he would do kee the rod raised to best him. The lecturer concluded by referring to the following lines :--

> Dreary place would be this earth Were there no little people in it; The soon of life would lose its mirth Were there no children to bugin it.

The Reading of Novels, and Some Results.

The Wesleyan Lecture Hall was crowded to naerflowing when Mr. F. W. Quinton Anderson, n.a. Professor of His Highness the Meheraja's College, delicered an exceedingly chaste and instructiae address no "The Reading of Novels, and Some Results." The gist of the discourse, however, was the speaker's powerful and conwincing recommendation of the truly ideal novel, ee a monderful meens of diffusing much learning and noderstanding which the ordinary prossic methods of study often failed to eccomplish. It was, of course, necessary to exercise a certain descrimination in the choice of the book, and in this connection he mentioned the names of George Eliof, George Meredith, and a faw others whose names came to him se those writers who had largely contributed to the many triumphs of European literature. When one walked abroad for pleasure, it was assal to chose the open spaces in the constry, in prefarance to the congested areas of the bezsars and lance, and the same principles of judgment applied to the choice to literature, where, with those who sought to derive benefit thereby, the salection was devoted to the quality of the book which could be sefely relied upon to impers purity and wisdom, than the victors volume which contained much of meterial that was of a vapid end unworthy neture. There had, be seid, here a great growth in Hindu literature, but its progress gaussally had been pertial and icadequate. Reverting to his impressions of the really perfect novel as being an ideal mediam for Instilling true knowledge, the speaker added that he was convinced that It possessed for weightier and more reliable influence then many piecus of advice which were tendered from insincers and ineffectual pulpite, and sormons which were often practiced to empty pews.

Lord Carmichael's Advice to Students.

Hir Escellency presided at the annual prizegiving of the Darja-lang Gorconoust High Subool. The Hom. Mr., P. G. 1790., Carl. the Ros. Nawsh Spright Shanaul-Hods, the Hos. Mr., Hom. Nawsh Spright Shanaul-Hods, the Hos. Mr., Israel nawshor of helies and gentlemen were present. The programme opposed with resistation in Beogral, Lurcha, Tubriao, Sanvirti, Napshi, and Hindi. Hab. Basanta Kanner Das Gupet. Bis Escellency in addressing the students said:—

This is not the first time that we have mat: I look book with great pleasuruon the day when

hat year I came and eaw you all hauff at work in your classes. What eirrok me most then, and what strikes me most own, is the remarkable number of different races which you represent I wonder whether any other school in Bengal cen boast of as meny—I doubt it The great diversity of race and of manorer—bas been a constant sources of interest and joy to ma ever succe I came here

So far as the school enthorities are concerned bowever, this diversity of races must bring with it many difficulties, for each race has its own language,-Basante Babu bas told us in his report that no fewer than 8 languages are tsoght in this school The excellent programme of reci teting which you have just gone through has shown us how successfully you have overcome those difficulties. I nover before lietened to an many languages spoken to the short apacs of belf an hour I am told that there were other boyaquita ready to go on reciting other pieces, but that for want of time their efforts have had to he kept for enother occasion I am sorry so some ways for this, I faor that they may be disappointed, and I am sure I should have liked listening to their recitations if there had been

Although I do not understand the different languages I am glad that your recetations were given for the must part in the muther tongue of those acholars who gave them, for this is avidence that to the echool the vernaculars are out being forgotten I am a strong apporter of the viaw that a sound knowledge of one's mother toogue is the best foundation for ell true edocation ie a great thing to be proud of your mather tongue and to be abla to epeak it well and to atand up for it against all comers It increases a man's pride to his race and country I am proud that I am a Scotaman, and hope that each of you boys is likely proud of your nationalities whether you be Nepals or Bhutta or Beogals or Leocha or Tibetan, whatever other race you belong to

A Governor when speaking to boys at a principular slaws expected to give them good advice, so I must not leave this part out of my address to you. My advice to you is to make the foliation is a world having for its own after the contract of the contract

You know what bappene if you get nothing to eat. I will tell you what heppene if you do not collarate year mud — Your powers of reasoning and your jodgenet got or mot, just as your body goes to row without food, and e man who bad natural claverness, but he neither reasoning nor judgment, is a dangerone character in the world, and only too often comes to a had and a I to live. Remamber, then, three is no knowledge which is not your.

Learn as much as you can about all sortaot throngs and the world will become to you a per petual sourse of interest, surprise, and yoy, and learn as much as you can shuit all corts of men, on as to sympathies with others and to feel for others in their troobles. If you learn these throngs you will have a beppy and oseful life.

A libaral education is the greatest blessing which any man can bern I cause and my remarks better perhaps than by quoting to you some words of the late Professor Hualey :--

" That map, I think, bue had a liberal education who bas been so trained in youth that his hady ta the ready servant of his will, and dose with ease and pleasors all the work that as a mechanism, it is capable of , whose intellect is as a clear, cold, logical angine, with all its part of equal errength and in amouth working order, who like ateam angine may hatorned to eny kind of work, and spin the gossamer as well as forge the anchors of the mind , whose mind is stored with a knowledge of the great and foodsmental truth of Natura and of the laws of her operations : one who, no stanted escetic, is full of life and fire, but whose passines are trained to come to heel by vigoroos action with the servant of a tander conaccepce who has learned to love all beauty. whether of Natura or of heart, to bate all vilaness, and to respect uthers as himself '

National Character and National

Under the suppress and at the basquorit meeting of the SF Joseph's College Uoin, the Rer
Allian F. Gardiner, Perscipal of the S. P. G.
Callege, delivered an informing and soggestive
address on "National Character and National Leteratorie." If Gardiner communiced his address with a short reference to the common Arysis
ancestry of the languages of Modern Europe and
of the East as established by comperative
Philological research. The two main European
slocks within this acope of the selected polyect
are the Keitu south of Perfording. The difference
are the Keitu south of Perfording. The difference in grains batteren the Keltic and the Testonio trees is antesqued in their respective literature. Some attition characterists of each are discernible and may be sounded on its the quickness of grass and objectiveness of authors dispersed by the Keltic element and in the siswares of intellectual process (related even in the largue age; and tendency towards introspection switned by the modern representative of the Testonia rece.

The English language, brought over the channel by bands of Tantons from North-Western Germany, 12 of the Teutonic -or more precisely, Low German-stock in the Arren family of languages. In course of time and under diverse influences, the English language has lost its troublesome infirstions, and estatued its present degree of development. The assimilating capacity of the English language has been remarkable. The survival of Keltic terms, the inflas of French words (Latin or Romenic in origin) during the Norman investon suriched the essentially Tentonio language and increased its adaptability to a delicate turn of thought or deaterons menipulation of phrese. The intermingling of these elements has contributed to the vigour and vividness, imagination and human associated with English Literature. Weelth of idiom, volume of vousbulary and capacity of assimilation-tha true signs of growth, have rendered the English language admirably spited for the expression of subtle distinctions in thought.

The predominance of the Tentonic or the Keltin characteristics in the writings of certain great makers of English Literature furpishes an interesting subject for contemplation. The exceliences of Chauser, Spencer and Shakeepeare arising from the knowledge of Nature, the delinestion of character, and gift of humanr ere apt to cover their disregard for general effect and their lack of the sense of wholenus, Milton atsude, like bis own spic, to splendid isolating es an individual genine intent on the creation of general effect. Though not valuable as a study of character or storn of humour, the poetry of Wordsworth reveals intensa love of Nature and an almost prophrtir fervour for the interpretation of her teachings. Akin to Spenser in merits and failings, Alfred Tenryson hes wrought marvels in the language and his skilled art bee chisolted centiments into the firwless grace of barmonions numbers.

Keltio fire and passion has found sway in the aphere of eleganice and even to-day the apendes of itish members on exciting topics serve to

enilven with meny a flesh of wit and epigram the proverbially long and dreary Parliamentary discussions. Unrivalled for sluquence, alert in speculation and comprehensive in perception, Edmund Burke represents in bimself the excelleuces and achievaments of the Irieh temperament. The emisble Guldsmith with his verestile groins may also be mentioned for his essential contribution of the element of genulus" pathoa" to English Literature. But the defects of these very qualities should nut be averlooked; Super-Sciality and passionata enthusisem are too aften the besetting dangers of Keltio ardour. Thus national and racial characteristics find shape and sapression in Liturature through the centuries, although some alluwence must be made for the merked individuality of rera genine. Of Literature in general it may be said that it should derise elrength and enstenance from the realizatinne of Truth, Beauty, Pority and Felth. .

(FOREIGN)

Education and the Future.

"Chaotic, insfficient, and ill-anited to the temper of the times and of the country in which we live: not of joint with the industrial needs of the times"—such are the views of Dr. H. B. Gray, a schular and adnestional authority whose knowledge attends from Wicchester to Toronto.

Hone schools were assond, a new public, a new nation would arise for a few years. Ho or notiversities continoed the processe and fitted man not conjet for extrain professions, but also induced them with real coltree and extrained, we should some again lead the world-sand this not notly in a monetary same, but regards character and grift. But what surprayed character and grift. But what we regard the state of the surpression of the surpression of the surpression of the surpress of the surpression of the surpression without emphasising either personal or commonal responsibility.

For instance, the saven great public about subseased is the survey of the Public School commission of 1601 are, without school commission of 1601 are, without beautign per profits of the boarding fees, additinct front toutorial fees, pass into the porkets of the tutorial fees, pass into the porkets of the distribution of the standing-boarding-

tenus in the position of hotel keepers, and derive most of their scholastic income from this source

In view of this somewhat nopleasant commer cul fact one objects the more to the idea that besieese education (in combination with liturary education should be regarded contemptously No institute and despise its own means of anabissi acce—a notion of shopkeepers were better then a decadence of anabis

Oun despairs of a condition of things such an this --

The license with which for in amplier some of the word, without which is any cheristan can set op a brase plate in advertuse his establishment as "a Preparatory School for Joung Gontlemen," and actually carry on fountining trade in boy as unide and bosies, would not be telerated a suputive profession or in simust say countly as Larope, It is grave scanded, in English addression

One does not believe fur a minorishes the profession in disbones. But what would one say of a feet in which each ship was a privater run for profit rether then a newy built for defence tither boys are cranted in a menner that Squeers himself would have repudisted, or they follow to ceruless fashion the whims of a crank

To sum up, an Empire whose component parts are dispersite sood so widely soudseed to eithoulo gical and geographical conditions a demonstrate forecoment and entissessive jup of men equipped with the olmost reveality, to robustores and originalists—a combination which can unity be secured which the conditions which can unity be secured which has not seen there is no secured which has not seen been harried or impaired by membranes forcing process.

Our professions and trades need men not spoilt boys and walking encyclopedies

The public schools and now the Conneil Schools are to a great extent tied to the erindines of a authquated University system. In their real for classic learning the latter furget even ideas of Plate Their curriculum proceeds un the fines that she world peads onthing but curates and school masters. Admirable as these men may be, tha erorld needs statesmen, bankers, merchante, and organises imbaed with good sensuand Brigio sity so that they can lead the army of labour to the poble victories of peace. The idea that a coarse of bean eas training (ney, technical train ing also) could prevent a man teking a caltared del aht in letters to foolish as to be beyond belief Are not our leading authors non University men for the most part? The bettle for culture isself

depends upon University reform. True, a long course involving electrical culture is not required but a few doses of classical eram present a nox inne and similar har

We have not yet found a practical way of uniting book learning and hand learning -

The chef defect, however in "Modern Side" deaction we thu is sentificient recognition of the centific connection between mind and hand Little attempt has been made, except in the last ion years, in include membed work in the orthodox currenteem. Carpenters because were not doubt fitted up in many schools for the relief of "practical" boys desiring the high jours, to second them called the desiring the high jours, to second them games. But these were cheefly projected and conceptually in an amilter made.

One caunat spears the need for practical training. Why, for instance, should a child fear from books, and only when he have finished that edd of his education, turn to the francing of the hand? It is each sub would be to learn all battery for two years, then spend two years on geography, and so on

The Higher Learning

Miss Mergeret J Tole, u a, Principel of Bedford College for Women, writes in the Daily News and Leader —

Many movements in the lest fifty pears have, belief forward the processer-or as some three, merked the decline—of the English race Of these, none have been more rapid than the spread of the higher forms of learning among classes to whom these wers none denied Fifty years ago a University men, or as it was more fashnoosily spoken, a. Versity 'man, was a man who had resided either a! Oxford' or Gembridge and as such was hellmarked a member of the moveyed such was hell marked or the contraction of the pears of the contraction of the contraction of the fash of the contraction of the contraction of the fash of the contraction of the second of the contraction of the cont

Au to all coolings within the presence of two mediural towns. London has its great tenching to the properties of the second of the properties of the second of the properties of the second of the sec

If this advance has been merked in the cera of University aducation in general, it is so onehundredfold more in so fer as women are concerned. Or, rather, it is not a question of adeence, but of the coming into being of that which was not. Fifty yeers ago a woman who desired to learn had to maunge so best she could and depand upon herself or upon the knowledge, kinduces, and leieure combined of her friends of the happier sex. Girton, Nawaham, and Somerville were still on effair of dreams. Only in a humble way in London, at Quecu's College, in Harley-Street and at Bedford College named from the Square in which it stood, there were classes for girls and woman who wished to carry on their studies beyond the ring fence of mere accomplishmente : while at Cheltenham Miss Beale hed already started the college which was to get a stenderd for girls' schools over the country.

Today all the Universities of England see for women who desire a study in them, though Oxford and Cambridge still gazed, with yeloes care, belle degrees, belief membraship, and their Chairs from the lowster. And if the women students of Oxford and Cambridge do not yet a mount to emeny as 1,000, this number is more then trebled in the Universities of Lundon and the provinces.

As with men, so with women, the trend of this advance of the higher learning has been democratio; though never bee it been to their care on effulr of cless. At first, within the reach of those only who could et least efford to reside at the college chosen; now, in the newer Universities, where the day students for outnumber the residents, where the County or Manieipal Anthoritice provide a wall thought out series of scholarships from school to college, the powent may share with the women of meens all the good things which a college bee to give. Nor are these few or wanting in velue. Indeed, if happiness were a thing that could be computed I think the sum of it experienced by women atadents in their three cullege years would be found far to ontweigh that of any other group of persons during the same space of time.

Kindly seather whose lumning they may whar and starts to surpost friends of their own aged to the choice, freedom from home restraints skidles where their tastes one have full scops soncy laws an ow which to play river or lake on which to row; shody walks to preci to coavrase—all those things together with quiet for those who sake it have been for many years the portion of the buppy dwallars at the Women's Colleges of Oxford and Genthidge, and at the Royal Höller.

way and Westfield Colleges in the University of London.

Now in the heart of London itself Bedford College is able to greet to day stodents as well as to residents these special plessures of specious grounds, of weier, lown, and tree.

Bot the college statement does not only look back spun her undergredusts days a those in which she has the statement of the statement of the those in the theory but of the sales as those in the theory of the statement of the statement of the statement of the statement of fact, time, purhape—learned is how many ways mee and women may differ from one seother in faith end thought and action only at dasher the seme good. She has found on their is in more important to this rightly than to were a smart het. She has—in short—begon to put a true relatement on the time of the

How to prepare a Speech.

Mr. Atthur Sourchier, M.A., the well-koover east messeger, has an ericle on "How in Prepare and Deliver a Sprech" in the scond volume, just out, of Mr. For Devise' The Book of Pos-Speaking." It is in averyday life, according to this authority, that the foundations of access to the set of speaking most be lidd:

Set your ideas, you impressions, you festings in order. This A of certain facts, and weres them the story. This A of certain facts, and were them the story of th

The woold-be oretur must, Mr. Bourchier edds, extend his vocabulery, and this can only be done by reading the works of the masters of literature. Many would be public speakers are afflicted

with netroogens, but this can be cured:
Rebarres your speech should, for yourself first statistics out in some good friend to heary only then you will see occusioned to the spound your own vroics. When you no on the planted to speech your will seldem be the growth of the property of th

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bim in good humour, and he will be eager to ponotnete your points with borst of applease Coltivation of the net of speaking distinctly is, in Mr Bourchier's opinion, the very first principle of all oratory. Without it winged words are of no evail

Mr Bonrehter lays etress emong other things on the velue of the 'pause' end in this connexing quotes these words of Froude in illustrating Cardinal Newmen's power as a preacher

Newman, who was at that time Vierr of St Mary's, Oxford, had been describing some of the incidents of Oar Lord's Pession 'At this point' Fronds esys 'he pansed For a few moments there was a breathless atlence. Then to a low, clear voice of which the faiotest vibration was heard to the farthest corner of St Mary's came the words "Now, I hid you to recollect that Ha to whom these tungs were done was Almighty God" It was as if an electric stroke had gone through the church I suppose it was an epoch in the mental history of more then one of my Oxford contemporaries! Among actors of our time none, we are told, nederstood the value of the panse more than the late Henry laving, who rever failed to give it extraordinery eigrificance

The Laureateship

An interesting survey of the origin and history of the Lacocateship appears in the Literary Supplement of the Times Coming to modern times, the writer says - The Premier of the dey as we know had not heard of Taunyson a few years before Wordsworth's death, when he was induced to read 'Ulyesco,' and as a result conferred a civil list pension upon the poet in preference to Sheridan Knowles. This now forgotten dramatist was sill the favorrite of some of the profession, such as Lytton, when in 1850, upon the refusel of Rogers, the chaplet was conferred upon Tempyson, for so many years the god of the Oolden Bow, if not the I was among gods and poets no his commit of The influence of Prince Albert as an admirer of 'In Blamorism' is said to have bean paramount in the appointment. But the offer of the Court poet's place was made in the most delicate and flattering terms, the maintenance of the office being grounded, first, on ancient usa and precedent and, secondly, upon the Queen's wish to rotem a lock between S. James's and Parusa ans. There is something pleasing about the conception of the Court es a microccem of human

enciety with its jester, its astirist, its historian. sts elmoner, and the Court post As the lester has his cap and hells, so the poet had his paraphernalia, his butt of sack which enabled him to entertain Feste and other choice epirits if at seemed well to him within the precipois of the Conrt-of course, within hoors not prescribed by the presiding Major Dome For a poet to be a professional in those days petrooags of some cort was indispensable and that of the Court took this somewhat indeficite form Nothing was probably fixed definitely and noelterably in regard to the appointment except that the payment was in a chronic state of arresrs Bot the regular production of the schaduled odes postulated a certain amount of exhibitation which was doly provided for, while the public were adequately protected by the mosic sod pageaut in which the actual niterance of all this periodical postry most have soveriably been emothered. Queen Victoria who reverted in her ideals to the Stnerte, revived a personal and asotimeotal attachment to her Coort poet. In the case of other sovereigns of her dynesty we may perhaps take at for granted that the relationship was for the most pert porely nomicel It is wall known that the late King was not very devoted atodact of poetry At a banquet upon a semi literary, semi State, occarion, when the osmas of the guests had to be submitted for the King's parsonal inspection that of an extremely wall known post was objected to on account, it is said, of its notamiliar and pleberan sound Explanation led to a frank admiss on of the King s unfamilierity with some of the chief poetio reputations of the day. Yet the poet in question was one of the daintiest and most accomplished writers of very diocoasion that the country has produced . The wisdom or nawisdom of doing away with the time honoured conventions of the langesteship at the present innetura is a question on which wa do not feel ourselves called apan to prononces judgment most be admitted that the excessive purism of some of the critics of the encient office sod the e-outsveness of others on behalf of the sacred flema of poesy is not a little paradoxical et a time when the example of Tennyson in declining to regard the ecceptance of an honorific titls from the State as any degradation to the fair fame of Poetry and Polita Leiters' is heing so sagerly followed on every hand Still more wasteful and paradosical in our opinion would be the waste of skill and connoissenrahip in the matter of making a choice emorg a most opplient field. The perplexity and after bewilderment as to the croons which should rightly govern their choice might, in the case

of such Previews as Planeston and Salabury, be very well accounted a valid reaso for so-pending any accounted. But in the sease of our present fractions are sent during the season of t

Bacon and the English Language.

Sir Edwlo Daroing-Lewience, Bt., writes in his pemphists on the Shakespeare Myth from which the following extract is taken by the Wednesday Riview:—

We owe our mighty English tougue of to-day to Francis Bacon and to Francis Becon slone. The time has now come when this stopendoos fact should be taught in every school, and that the whole of the Anglo-Saxon speaking peoples chould know that the most glorious birthright which they possess, their matchless language, was the result of the life and isbour of one man, cis., Frencie Bacon, who, when as little more then a boy, he was sent with our Ambassador, Sir Amyas Panieti, lo Paris, found there that " La Pieisde " (the Beven) had fust succeeded in creating the Franch language from what had before been as they declared " merely a berbarous jargon." Young Bacon at once enized the idea and resolved to create on English language capable of expressing the highest theaghts. All writers are agreed that at the comments ment of tho reign of Queen Eliasbeth, English on a "literary" languagu did not eaist. All writera are agreed that what is known as the Elizabethan Age was the most glorious period of Fogtish literature. All writers are agreed that our language of to-day is founded upon the English translation of the Bible and upon the Plays of Shakespeare. ' Every word of each of these was andoubtedly written by, or under the direction of, Francis Bacou.

writer in key larguage produced all bis plays with about 15,000 words."

Does any one appose that any marter of the Stratford diremmar School, where Latin was the only lacguage used, knew so many as 2,000 English words, or that the illiterate Lonebolder of Stratford, Loown as William Shakespears, knew half or a quarter so many ?

But to return to the Bible-we meen the Beble of 161 t, known so the Authorised Version, which J A. Waisse tells us contains about 15,000 different words (i.e. the same number as ested in the Shekespeere plays). It was translated by 48 men, whose names are known, and then banded to King James I. It was printed about one and a helf years leter. In the Preface, which is evidently written by Bacon, we are told "we here not lyed cornelres to an pelformitie of phrasing, or to so identitie of words." This question of veriety of expression is discussed in the Prefere at considerable length (compare with Max Muller's references to Shakr. apears's estraordinary variety of expression) and then we reed : " Wee might elso be charged with some prequell dealing towards a great number of good English words......if we should say, as it were, unto certain worder Stend up higher, bore a place in the Bible alwaies, and to utbers of like qualitie, Get ye bence, be banished for ever." This means that an endeavour was made to insert all good English words into this new translation of the Bible, so that more might be deemed to be merely " secular."

le it possible that any intelligent person can really read the Duble see whole not one a bit really read the Duble see whole not one a bit the not reduced by the seed of the seed of the the majestic rhythm that rome through the what the majestic rhythm that rome through the what the majestic rhythm that rome through the what the account but he legogage of meet writers but must she from the pec, or at least from the adtornhip, of one great meater mind ?

A confirmation of this statement his the Authorized Version of King James I. was addituded by non-material and is controlled "Frees" newspaper of March 250d, 1915, "Green" newspaper of March 250d, 1915, "Green Version," writing about the Residuation of 1631, any, the residuation of 1631, any, the residuation of 1631, any, the residuation of the property of the pro

Yee, the Bible and Shakespeere embedy the language of the great mester, but before it could be so embedied, the English tongue had in he exceted, and it was for this great purpose that Bacon made his piteons appeals. for funds to Bodley, to Borleigh, and to Queen Flizabeth

Observa tho great mass of aplandid frausistoms of the Classico (etter second hand from the French, as Platerch's "Lares' by North) with which England was positively flooded at that period. Hitherton on writer seems to have called attention to the fast that certain of the statement of from the original Greek or Latin, ont because it was easier to take them from the French bard and phrason were onabled to be introduced to unrich the English tongro. The esting of these translations could not possibly have paid say considerable portion of their certain the result of these translations could not possibly have paid say considerable portion of their certain the could be supported to the contractions of the contraction of the could be supported to the contractions of the could be supported to the contraction of the could be supported by the could be supported by the contraction of the could be supported by the could be support

Thus Bacon worked Thus his books noder all sorts of pseudonyms speared. No book of tha Elizabathen Age ut any value proceaded from soy source oxcept from his workehop of those, good pens," uver whom Bau Joosou was foreman

In a very rare and cursoes hitle volume published accopymostly in 1615, under the title of "The Grate Assues holden in Pernasus by Apolle and his Assessors." Ben Jouson is described as the "Keeper of the Trophonian Danco," and in Westimuter Abby his medallion hast appears clothed in a left handed coat to show us that he was a servant of Bacon

G, rare Box Jonaon—what a turn cost grown?
Theo ne'er wast each fill clad in stone,
Then let not this distart thy sprite,

Another aga shall set thy hottons right Store it , p. 513-15.

In the same book, we see on the leaf following the title page the name of Apolfo in large fatters is an orosmental frame and below it in the place of honour wa find Francis Bacon placed as "Lord YearQuay Chancellor of Parnasius"

This means that Bacon was the greatest on pole snote the world began This proud posterior is also claumed for him by Thomas Raudoll in a Latio posm published in 16:10, but believed to have been written immediately after Bacons death to 2028 Thomas Raudoll deshaves that Plachus (** Apollo) was soccesors to Bisconic death because he was straight as Bacon would some dry come to be crowed king of postrain which was the contract of the contract of

Instances in gbt he multiplied, but I will only quote the words of John Davies, of Hereford, another friend of Bacon's, who addresses him in his "Scourge of Folly," published about 1610, as follows —

As to her Bellamour the Muse is wont , For thou doet her embozom , and dost use.

Her company for sport twist grave offsares. Bacon was always recognised by his coulem-poraries as among the grootest of poets. Although nothing of any poetical importence hearing Bacon a came had been up to that time published. Store (in the Annales printed to 1015) places. Bacon accord in the late of Elizabethan poets.

THE UNIVERSITIES

MADRAS UNIVERSITY

Medical Council and Languages

The following circular letter has been addressed by the Regulars to the Principals of all affiliated Colleges and the Beadmasters of all recognized High Schools—

I have the honour, by the direction of the Syndicate, to inform you that the Regulations of the General Medical Council of Great Britain, regarding the eseminations recognized as a soffi cient test of preliminary edocation in the case of students enteriog upon medical courses of study. require that each such student shall have passed the qualifying examination in a classical language. The Council has onder countderst on the revision of its Regulations and is in correspondence on the subject with the Syndicate The Conneil has expressed its intention of accepting the loter mediate Examination to Arts of this University as a qualifying examination in the case of students entering upon medical studies provided that such atudents have taken a classical or classical oriental language either in Part II or Part III (Ontional Group in) and have estished the Framiners there In view of this proposal of the Geoeral Med cal Council Principals of Arts Colleges are advised to warn their students that those who wish to enter upon the medical career must take op the study of a classical or classical oriental language for the Intermediste Examination It is improbable that the Council will grant any concessions on this point in the case of students commencing their intermediate course of studies during and siter the academic year 1913 14

As it will be apparently impracticable for a Secondary School Learing Certificate Rolder or a Matricolate to take up the study of a classical or classical oriental language either in Part II or Part III of the Intermediate course unless be has studied the language during his school course also. I am directed to invite your attention to this matter and to request you to be an good as to give the necessary warning to the pupils in your school who may intend eventually to enter upon medical courses of study,

CALCUTTA UNIVERSITY.

New Professorships.

A meeting of the Senate of the Calcutta University was held at the Senate House, College Squere, on the 19th instant. Sir Abstract Mootherjee, the Vice-Chancallor, presided. There was a fejir stendance of Fellows.

The View-Chancellor mored that a Professorship of Comparative Philology be established and that Dr. Otto Strauss, Ph. Dr. has appointed Profesary of Comparative Philology for a team of these years, on a selary of Ra. 600 a month. If a said that the Syndrete after odly considering the qualifications of Dr. Otto Strause considered birm sminestly fitted for the appointment and recom-

mended to the Senate to coofirm his appointment.

Dr. Thebaot seconded the motion which was put and carried.

Sir Achutoch Mookerjes uset mored that Dr. W. H. Yoogs, M.A., D.Se. F.R.S., Lecturer on Higher Analysis at the University of Liverpool and sometime Fellow of Petrashorough, Cambridge, he appointed Hardings Professor of Mathematical phases of Professor Freesbeet on the following in places of Professor Freesbeet on the following the place of the Professor Freesbeet on the following the place of the Professor Freesbeet on the following the Professor Freesbeet on the School Professor Freesbeet (2) the salery to be Re. 12,000 plus home allowance Re. 3,000 or Re. 15,000 p. purpose the Professor Re. 3,000 or Re. 15,000 p. purpose the Professor Re. 3,000 or Re. 15,000 p. purpose the Professor Re. 3,000 or Re. 15,000 p. purpose the Professor Re. 3,000 or Re. 15,000 p. purpose the Professor Re. 3,000 or Re. 15,000 p. purpose the Professor Re. 3,000 or Re. 15,000 p. purpose the Professor Re.

The Vice-Chancellor stated briefly the bigh qualification of Dr. Young both as a teacher and writer, He sid that Dr. Young was a real mathematical teacher and his books were wellhowen to error student of higher Mathematics, Dr. Young's appears were polithed in three languages, English, German and Frence. In the opinion of Sir Antucha Mooterpie uche spopular mathematician was eminently fitted for holding the appointments.

The motion was put and carried.

BOMBAY UNIVERSITY.

Alleged Injustice in Matriculation.

A meeting of the Senste of the University of Bombsy was held in the Sir Cowasji Jahungir Hall. The Hon. Sir Pherozenhaw M. Mebla, senior Fellow present, presiding in the shance of the Vice-Chancellor, The Hon. Mr. Juntice J. J. Heston.

Mr. E. D. Talati moved a That the following sentence be added at the end of Regulation No. 19 of the new Regulations in Arts and elso at the end of the paragraph beaded "Matriculation Examination (New Regulations)" pages 104 end 239 respectively of the Calcuder for 1912-13:—

"Should a candidate, however, not obtain the minimum mentimed above in one ambject only, be should be declared to have peased the carainstant, if on a raview of the candidate's marks a unjority of not less than two-thirds of the examiners present decide that the candidate should past, provided slaway that no candidate shall so past unless be obtains at least 45 per cent, nf the total marks in all subjects."

Principal Coveration opposed the proposition which in considered would produce a stat a result his flower and the Mr. That I that his flower on the week up to in the case of alerticolation extensistion for no doubt in respect to English, their conductates absoured under great deadwantages. He thought that the case of those candidates who obtained 45 meris of of 150

in English should slone be considered.

Dr. Powell strongly opposed the motion. He caid this rule had been grossly shused by examinations and it into the control of the co

would be grossly abosed in this case.

Mr. Bhabbe said Mr. Taint's proposal would have been worth discussing if be had added the words suggested by Principal Covernton.

Dr. Mann thought that Mr. Talaile proposed would be on way lower the atandard of English for that was in the bands of the examiners and he boped that the standard would be raised. He defined Mr. Talail to withdraw the present motion in view of the imperfection in draiting and bring in snother to the part future.

Mr. Teleti in reply said be had encoveded in bis object to a great extent by agitating the question. He, however, followed the advice of Dr. Mann and naked leave to withdraw his proposition.

The permission was granted.

ALLAHABAD UNIVERSITY.

M. A. Scholarships.

The following Covernment M. A. Scholerships of Re. 20 per menesm have been awarded to the following candidates on the result of the B. A. zaminetion. The scholerships are tensile for 22 months from July 1:-

Miss Mand Annie Keogh, Massoores Woodstock College; Hefiz Mehomed Yasin, Aligarh M.A.O. Cullege, Miss Eileen O Neill, Mussoorea Wood stock College Pearsy Lal Chak, Lucknew Canning College

D Bc. Scholarnhips

Of the value of Rs 20 per menacus tenable for 3 years on the result of the B. Sc aramine

Anand Swarop, Agra College, Sved Abul Hesan, Allanabad Mour Central College

B. Sc. Scholarships

Of Rs. 12 per mensom tenable for 2 years -Jaganneth Tripathi, Benerea C. H Collega . Ram Gopal Vaush, Allahahad M C College, Sua Ram, Agra Collega, Joytish Chandra Chattarii, Allabebed M. C Cullage

B. A. Schularshine

Of Rs 12 tenable for 2 years

Shee Cheran Satvawadi and Sved Wass Hasan. Allahabad M C College Manmohan Lal Mathur I Bareilly College, Abid Husain Khan, Al garb M A C College Balbbadra causy,
O College Syad Hasau Burcey, Aligarh M.A O Collega, Mehomed Beshir al Haq Haqqi, Mearat Collega, Abdul Ghaces, Aligarb M A O Collaga, Kriebne Marari Lal Sekeens, Banaree C H College, Ram Chendra Singh, Mearnt Col lege

Intermediate Scholarships

Of Rs 8 teneble for 2 years -

SPACIAL FOR GIRLS Misses Grace Joseph, Delsy Evina Phillips and

Helen Rachal Smelite of Agra Queen Victorie School and Mise Isabella Megril, Lucknow Isabella Thobarn School

MATRICULATION

Lalla Rem Tewers, Allahabad , Krishoa Dayal, Nataichandrs Shome, Luckunw Bhaskar Nath Kaul Sharga, Agra Harr Lall Mitra, Allahabed , Sebat Bahedor Lal, Allahabad, Bhapendraneth Saba, Dehra Bun Tombhat Umanath Rec, Banares, Mahomed Nasım, Bena res , B P Datt, Lucknew, Misa Shuniti Chat terjes, Lucknew

Kateshwer Prasad, Fyzahad, Ragbubir Prasad Singbal, Aligarb, Raghunanden Saran Moradabad . Yadn Aanden Prasad Misra, Sitapor . Syed Razi Abmad Sitapor , Ramanni Das, Ghazipor , Ali Akhtar, Moradahad, Keshaya Binayeka Tam bay, Jhans: Abdel Latil Khan, Sikendrabed, Kunwer Bahadur Saksana, Etawah, Ram Sahey Sherma, Aligarb , Abdul Rabman Ali, Allahabad, Pitambar Paodey, Neini Tal

TECHNICAL EDUCATION

TYPEWRITER Turics

The Editor envites contributions on Topics regarding Typewriters]

ARMSTRONG TYPEWRITER



Scarcely a year passes without some form of typewriting machine being pleced on the market and everyons of each machines to highly spoken of by the inventors Under the circumstances prospective purchasers are caturally somewhat at a lose to differentiate one from the other Gener ally two things ere aimed at in making a choica of typawriters out, efficiency and moderated cost When these two things are no cooner stated than any one acquainted with the relative merite of writing mechines would immediately think of the Armstrong This wooderful machine has set a new standard in high efficiency while others are making numerous additions to their machines, thereby making them mora and more complicated and bulky without considering whether the seme end cannot be attained with less complexity in construction The inventor of the Armstrong hit upon a plen of constructing a typewriter or untirely new lines which would be mechanically emploand yet embody all the best points in modern typewriter construction. The peculiarsty in the Armstrong typewriter lies in the single piece type bars baying the key on one end and the type ou the other. This novel featurn in its construction has siminated many parts which eraineeparable in the construction of other machines This simplicity in construction was no doubt aimed at by all inventore but the inventor of the Armstrong who had more than 25 years' experience behind him and with all thu best known improvements of high speed typewriters to his credit was alone able to put it into practice This delightful simplicity in construction not only rendered the machine less weighty and less costly but also made it highly durable end least hable to desorder In addition to the shove peculiarity the machini is provided with ell the necessary equipments such as Indicator, or pointer, frictionless ball bearing movements,

double colour ribbou device, perfect action of the eacapement wheel automatic movement of the ribbon, rigid carriege with instantanaone response, automatic line spacer, type guids, etc., etc., ell these points combine to make it a perfectly simple machine and a simply perfect machine By virtue of ite having a single piece type-bar its mamfoldiog power has become greater and the stencil cutting easy.

THE MADRAS HEALTH BEPARTMENT LABORATORY.

Messrs, Murch and Semour, Opticians, atc., Monut Road, Madras, vary recently equipped the Madras Health Department with a complete Ontfit for Bacteriological and Hematological research work, and they have received a communication, with regard to the efficiency of the matrameote and apparatus supplied saying that they have been well tested and found to be ni the highest order. The microscopo aupplied, of Eaglish menufacture, knowo as a "Public Health" Modal, is of the very latest and most complete construction, affording magnification no to 1,260 diameters, and is similar to those in use at the Tropical School of Medicioe, The Royal Micro-acopical Society, and scientific institutions in various parts of the world. We balieve that this as the first instrument of its kind to be introduced late this Presidency for public work. The completion of this outfit was under the personal charge of Mr. W.H. Murch, B. Sc., Optician and Scientific adviser, who will be planted to furnish details of the microscope, and other apparatus to any one interested. We learn that a similar ontat is being supplied to a Government justitution in the North of India.

STATE TECHNICAL SCHOLARDERS. ' The Government of India bave this year sonc-

- tioned the award of ten State technical scholarships to the following candidates for a course of training in Europe in the entirect noted against each :-
- 1. Mr. P. K. Rajamenikem-Leather goods industry.
- 2. Mr. Chunilal Purebotamdas Shab-Pottery. 3. Mr. Ramash Chandra Roy, at present at Manchester Mechanical and Electrical Engineering, subject to the production of a medical certificate as to his physical fitness to undergo the course of study proposed,
- 4. Mr. Abdul Rahim Khan, Bugar Engineering.
 - 5. Mr. Kriehna I.al, Sugar Ergineering.
- 6. Mr. Lahouri Mai Khoela, Flour milling.

- 7. Mr. Abdul Hakim, Chamistry as applied to minerals and metals. S. Vidyananda Dowers, Mechoical and Electric-
- al Engineering. 9. C. C. J. Brancion, Architecture.
- 10. Mr. Row Lal, Mechanical and Electrical Eugineering.

KALLAUAVAN TOCHNICAL INSTITUTE, Barnes.

The work of the Kalabhayan, Barode, is cooducted in eix departmente known as the echools of mechanical engineering, civil ongineering, commerce, nrt, chemical, technology and wearing respectively.

Students are prepared for the London City and Guilda examinations, which ere held to l'ombay, The courses of instruction in dyeing and westing are of three years each. They are systematically graduated, and those who pass are given diplomas from the lestitute. It is possible for one who has graduated in either wearing or dyeing to qualify for the other diplome, by one year's additional etudy.

The Secretary of State bas approved the propossls that have been made in regard to the Sydanham College of Commarce, Bombay, 'el being a practical scheme well calculated to meet the demand which may be expected to make itself felt to India for the services of trained actories end auditors.' The teaching staff which is is proposed to engage for the College at its commencemant will be a Principal un £900 per aonum or Rs. 1,125 per mensam, a Professor on £700 per annum or Rs. 875 per mensem, and two lectorers on Rs. 300-25-500 par mensem each. The Principal and the Professor will be appointed in England and the lecterers will be qualified Indiana. The Secretary of State assisted by Lord Sydenbaro, will soon select the Principal The College has been rendered possible by the 'satisfactory prumises of financial support from waslthy private nitizens '; but, it 'will be antirely under Government control !! In order, however, that the courses of study may be kept in full barmony with the practical requirements of commerce and industry, an Advisory Board will be appointed. It will consist of 18 members representing the Government, the private docors and the commercial bodies which have promised to contribute towards the cost of the College, . The Director of Public Instruction (who generally does not happen to knew much or take real interest in commercial education) will be the Chairman of the Board, and the members will include tha Principal and the Professor, representatives nom inated by the donors (Sir Jugmobandas Varice vandas, the trustees of the Wadia Charities, Sir Chinobha: Madhavlal, thu Bombay Chamber of Commerce, the Bombay Millowners' Association, tha Indian Merchants' Chamber and Boreau, the Native Piece goods Merchanta' Association, the Abmedabad Millowero' Association), and Sir James Begbie Secretary and Tresenrer of the Bank of Bombay The Chambar of Commerce has not promised to give more than Sir Jagmobandae or Sir Chionbhai, but it will have two rapresents tives, while other bodies and the individual donors will have oun representative each Sydanham College of Commarca will be affiliated to the University of Bombay, which has institut ed a new degree of Bachelor of Commerce and framed a scheme of studies to connection therewith

TECHNICAL ISSTRUCTION

& beginning has new been made in the allot ment of the Imperial Grant of Re 21 000 allotted for the correct year towards the payment of special grapts for Indostrial, Technical and Special Schools, and a Government order resued to-day states that a total sum of Rs 10,250 has been apportioned Fer carpauter tools Rs 181 are grapted to each of the following schools -St. Joseph's Industrial School, Combatere, W. M. Industrial School, Karur, Chengelvaroya Neick er's Technical Institute, Madras, Accot A. M Industrial School, Arni, Art Industrial School for boys, Nazareth, Si Francia Navier's Indus trial School, Tanjore, and H. G. L. M. Indus-trial School, Nayudupet, Rs 271, to A A. M. Industrial School, Velechest, and the Ansume i laba athul Hasauath, Vallore Re. 379 to St Joseph's Orphan Industrial Schools, Tindivenam, and Ra. 361 to the Aujomani Mafid : Abla Islam, Madras. Hs 2 250 are granted to Cheugalraroya Nascker's Technical Institute, Madrae for a milling machina and cutters , Rs 3,000 to the Agricultural School, Kavali, for an engine and pump for irrigation porposes ; I.s. 400 to the A. B. M. becooding School, havalt, for tools for aluminiam work and wearing, and a sum of Rs 2,051 is allotted to petty grants to various schools for minor appliances such as pillow lace, etc. proposed to pey the amounts specified above as free grants to the schools to improve equipment and proposale for the utilisation of the balance of Re. 10,750 bave been called for-

Reviews and Potices.

A GENERAL HISTORY OF THE WORLD, BY OSCAR BEOWNING, M.A. (LONGMANS, GREEN & CO.) 55 net.

Faw will question the essential soundness of the principle unonciated by Mr Oscar Browning in his Preface to this book, that a study of Hestory should begin with a knowledge of the ontlines of the General History of the World. There cannot be a better means of introducing the student to the sobject, for it is only thus that it is possible to guarantee a proper sense of historical perspective. There has till new been the want of a suitable College manual for such a purpose and it has been supplied by Mr Oscar Browning, whose name carries with it consider able authority and reputation. The confinement of the History of the World to a single selemn of eight hundred pages is no cidinary task, and nothing but Mr. Browning's wide experience and the writing of such manuals could have belped bits to accomplish it Quite on loteresting supect of the book it its recognition of all aspects of national life. It is no sombre record of political and constitutional facts, but a lively picture of the world's cirilisation and progress, taken country by country We wender if it did not atrike hir Browning that there should be a general introductory chapter, reviswing the world e bistory, and dwelling on the origin and wandering el the primitive peoples of the earth.

The book should certainly have had a better
beginning than "The land of Egypt is the creation of the Nile, made and unmade every year by the toundation of the river" We do net dispute the statement, but it is not a proper introduction for a general history of the world. We hope the defect will be remedied when the nest edition is called for

Ton List Central in Lebole, of C. E. M. Hawaceworfe, M.A. (Edwist Assold).

The author mentions a friend of his who is ead to have declared that the outsether henting would provide in the fature the most interesting and network particular for the property of the pro

Imperialism ned Mr. Gladstone, 1876—1887, by R. H. Gretton. Loudon; G. Hell & Sons. 1s. net.

15. net.

A Jusior Course of Arithmetic, by H. Sydosy
Junes, M.A. London: Macmillan. Ia fad.
Outlines of Victorian Literature, by Hugh Walker

and Mrs. Hugh Walker. Cambridge Uniser-

sity Press. 3s. nel.

Selections from English Poetry with Introduction,
Notes, etc., by three English Professors.

Trichinopoly: The Publishing Agency 5 As.

Text-Book of Zoology, by H. G. Wells, B.Sc., F. Z.S., F. C. P. and A. M. Davies, D.Sc., London: W. B Clire. 6s 6d.

London: W. B Clire. 6: 6d.

The Wanderings of Animala by Haus Gadow.
F.R.S. Cambridge University Press. 1s. net.

F.R.S. Cambridge University Press. 1s. net, The Children's Classics—Junior No. 23, 21d, Intermediate No. 44, 31d, Senier No. 54, 4d, London: Macmillao.

Indian Educational Rotes-MADRAS.

Shorthand and S S. L. C. Scheme -- Government have lessed the following order -Tre Director of Public Instruction submits forconsideration suggestions for the inriber recognition of the public examination in shorthand and typewriting under the schamenf Secondary School-Leaving Certificates. The Corerumant here gives the question their careful consideration and will proceed to pass orders on the various points raised. The Director proposes to modify the Public Service Notification so as to put shorthand and typawriting on ac squal footing with other optional subjects in the Secondary School Leav-ing Cartificate scheme and further to treat shorthand and typewriting as separate ambj-cts under that scheme. The Government while agreeing that shorthand and typewriting may be placed on the same footing as other optional C group appircts, are not prepared to give them separate recognition Shorthand and typewriting combined will accordingly continue to be regarded as a single O group subject in the Secondary School-Leaving Certificate acheme, but will be counted as one of the two options! subjects sufficient knowledge in which is a Decessary qualification in the case of applicants for admission to the public service under clause (2) of article 1 of the Public Service Notification. The article I of the Public Service Notification. The Government are further pleased to accept the Director's augmention that approved Secondary Schoolleaving Certificates containing satisfactory entries andar aborthand and typewriting about also be recognised as an alternative qualification for posts in the public service for which at present a pass in the elementary grads at the Government technical

examinations in typewriting is alone prescribed. The higher technical qualifications will, however, still be essential in the case of the higher appointments or scales of pay for which they are at present prescribed The Government also agree with the Director that in order to enauta a reasonabla standard of technical proficiency in applicants for such posts who hold Secondary. School Lesying Certificates the standard of the examination is aborthand and typewriting under that schema should be the same as that of the Government technical examination in those subjects in the elementary grade. The Director of Public Instruction will be requested to submit, for the approval of Government, draft notifications embodying the alterations required in (1) the Secondary School-Leaving Certificate Notification, (2) the Public Service Noufcation, and (3) the Government technical examination ayllabases to give effect to the above orders.

New Training Schools:-In Decamber of last Jear orders were passed by Government Riving effect to the reorganization of elementary training achools in pursusons of the sanction accorded by the Secretary of State in his despatch No 140, Public, dated 16th August 1912. The case of accondary training institutions was temporarily hald over in consequence of His Lordship's intimation that his general approval of the proposals submitted in that regard must be read as applied to the qualification that it should in no way prejudice bis decision on the proposed establishment of modal bigh schools. The Government have now given the necessary for-ther consideration to this matter and in risw of the urgent need to create additional facilities for the training of secondary grads teachers, they hars resolved at once to ravise present arrangements so lar as the necessary reform can be carried out itdependantly of the creation of model bigh schools by the temporary expedient of ntillsing existing secondary or elementary echools as practising sections. The six stations at which it was originally round an attainment at which it was orrecting proposed to open accordary training classes were assammedry. Mangalore, Chittoor, Coimbatore, Espanmodry, Mangalore, Rejahmundry, and Paighat and Tiruraiur. At Rejahmundry and Raugalore there are already accordary achools capable of farmishing the requisita practiced of the blobbs. material of the higher grade, and the assection of Seidapet in Hen of Chittoor will provide eimiler Incilities for a third secondary training school At Coimbetore an elementary achool is available and the enbetitution of Calicut and Tanjore for Palghat and Tiruvalor will cooveriently invoich the same toaterial in the districts of Melabar and Tanjore. The Government approve the proposals our should be a full of the control of the proposals our should be sh this decision will be temporarily located at Raish mundry, Mangalore, Saldapet, Coimbatore, Calicut and Tanjore. The training acctions will be permanerally succioned and the beadmasterships will be constituted noto a new grade caussings of an appointments on Rs. 200 and forming part of the active of Suh Acestant Inspectors, while a Forest addition of four appointments on Rs. 100 will be made to the same cades in order to provide for accionate the same cades in order to provide for accionate the same cades in order to provide for accionate the same cades in order to provide for accionate the same cade of the precision of the same cade of

Bailding Grants — The Government have suctored the following building grants — The 24:50 towards the cost of the construction of a building for the National High School, Nagapatam , By \$500 towards the cost of the improvements and Compercera, Br \$7500 towards the cost of the construction of a building for the G L M Secondary School, Tanjore, and an increase from En-10,000 to En 20:000 in the grant for the construction of the School of the School of the Construction of the School of the School of the Construction of the School of Construction School in Construc-

Teachere College, Seidapet -The report on the working of the Teachers' College, Seidapet, for the year 1912-13 quite appropriately begins with an expression of regret for the sudden and unsimaly death whilst on leave in England, of Mr. A A. Hell, the Principal, to whose efforts in the words of Sir Alfred Bourne, the successful development of Sir alived Bourse, the successful development of the College during the long period of over a quarter of a century, during which be was in charge of it, was due Mr. H. S. Duncan was confirmed in Mr. Hall a placa Government strengthened the suff of the College, Department by converting the post of Assistant Secondary Training Section, on Rg 550 5 200 grade into a lecturesh p on Rs 200 he no seek market have a first state of the Provincial Functional Service, and an Assistant in the Secondary Training Section was appointed to the new post of Lectures in Geography with effect from 1st January of this year. The staff of the model achool was increased by the appointmental sight additional temporary essistants and the appointment of eight temporary assistants sanctioned till 3lat March of this year were allowed by Government to continue till the Sist Merch neat year. The Government also sanctioned the employment for a period of stateen months from let January lest of a Hindne tans blunshs on Rs. 30 per measem for the model school attached to the Teachere' College, in order that arrangements might be made for the tesehing of Hindustani and for the formation of Mohammedan sections in the lower classes with a view to the use nf Hindustani as the mediom of instruction Daring the year, Government sauctioned the extension

of the hostel buildings, and thirty rooms were built at a cost of Re 8 850. Thu detailed plans and cetimates for the alteration and fitting up of the Physi caf Science Laboratory are being prepared by the P W D The College and model school were equipned with furniture to the extent of Rs 3.340 everage cost of boarding and lodging in the three Gollogo bustels was Bs 1f 8 0 per mensem All the graduates and secondary grade students who wern reherad in April, 1912 are reported to have secured employment as teachers, and of the present set of students most have appointments to join after leavmg the College The cost of the institution during the year sucressed owing to the appointment of addissoned temporary assistants for the model school, the equipment of the College and school laboratories, and the estension of the bostel While the receipts of the College emounted to Rs 8401 1f 3, thu charges were Be 94514 18 1, so that the net cost to Government of maintenance the College was Rs 86,113 | 10, and the cost of educating each atudent was Rs 730 as against Rs 415 in the previone year The Director of Public Instruction observes that the administration of the College was oreditable to the Principal, the Vice-Principal, and the staff.

School Hygiene—One of the most important referres to which the recent educational resolution of the Government of India draw ettention whe he imanguation in this country of a system of medical inspection of schools, on the lines of that racquis in England Scooland and other European countries. The Imperial Government have not been contact with a more agreement have not also importance of the subjects of the subject of the subject occurred to the hygienes conductors under which thousands of the princip generation receive their education to schools and colleges.

In accordance with the desire of the Imperiel Government, the Government of Madres heve taken eteps to mangurate this inquiry, though for the present they have limited its scope to the institutions in the city of Madrae A small committee, consisting nf Mr J H Stone, cra Colonel G. G Giffard, car, the Hun'ble Mr V.S Srinivasa Sastriar, the Hon Dr T M Nair, Rao Babador A C Prepatherthere Iyer 1 so, and Mr Yakuh Hasan, has been appointed by Government to draw up the beade of moory and enggest names for a farger committee which is to cinduct the inspection This preliminary committee met for the first time at the Senate House, and has tentatively drawn up the terms of reference. It is expected that when the larger committee is appointed by Government, on time will be lost in starting the jaquiry, and the fabours of this body ought to prodoce far reaching results

St Alpysine College —An extremely interesting lecture on Carlyle was delivered to a large andience consisting of the members of the St Alpysina'

College Literary and Debating Society by Mr. S V. With a ramarkable Rangiswamy lyenger, BA. josight into the character and a thorough greap of the various writings of the great Scotchman, tha learned lecturer combined much recreative informetion of his subject with as much valuable instruction in the course of his lecture, varied by the capping of many on anecdate in the long life of the author of Frederick the Great His whole-hearted sincerity, his atter truthfology, and dawuright counciding of "cout and hombug" and above all his striking originality were tooched upon each ru lie turn by the lecturer who would however be far from placing Carlyle's style of writing as a model for his youthful hoarers to follow. Mr. Lyanger drew particular attention of the audience to the great and noble tesits of Carlylo's character, laying special stress on his supremely filial treatment of his father. He sizo took occasion to refee to his kindliners, gentleness, earnestoess and devation which were, at times, apparently marred by the exceptricities and augularities of the man who had a whole nation of admirers and dayotees In short. the legtprer socceeded admirably in making the grand figure of Cartyle, the geneus leer of Great Britain during nearly half a century and more, live once more to his works to point a moral and adoen a tale conspicuous in the pages of the literacy history of England

BOMBAY.

Education in Barola—It appears from the annual Administration Rappers of Broof for 1911-12, which has jost hern published, that the number of the pupils in the veraceuter schools cross from 178,371 to the pre-eding year to 185,53, the horizontal property of the pupils in the translation of the pupils in the horizontal property, which is stributed to the fact that a larger number of the boys has to the grad self-their boses for the roles which had to be instituted, owing to State. The computery are limit for boys in East and far girls 11, and they are both required to study up to the Fourth Standard it is in coetample into the the standard or rise in coetample into the theory of the standard is in a coetample into a primary adjuction in a screen it is necessary that the scebers should compete a realmostly in the fourth schools in a screen it is necessary that the scebers should compete a realmostly in the first of the Germanest.

School Final Enamination—The following retricts apport to the crost joint scale by the Burntord Poblic Instruction in Booksy on the School Freal Examination in 1912. He quotes a remark by the examiners in history at Poose that all, attempted to write in general terms without reference to the letts which were around as if they were stamshofts. When Stopp says this examination is a subdimit. Mr. Shorp says this examely from the law wards bitting the right and no the head. Ge says the difficulty is that out of the huge mass of

historical and geographical facts many teachers have not the loss ides of what is essential and what is not, consequently they try to make their pupils learn all the facts with the result that is cometimes wares than as if they had not learnt anything at ail. The romedica are more teaching in the vernacolar and legislation on the conject of what rs and what is not sessential to remember. The difficulty is to find a legislative authority when relings will be accepted. It is all vary well for the French Academy to tell people how they are to spell, but if the Director of Public Instruction told the people what they were to remember and shat to faeges thore would be no end of criticism. It the examinar is entitled to ask anything in the world the teacher will usturally endeavour to teach his pupile averything in the wide world in order to he able to meet him. The Local Government in the res dution on the report agraes that steps should be taken through the medium of text hooks and special pamphlets.

Morel Instruction -The Bombay Government in a long resolution lay down a definite programme for moral matraction io schools. They first recapitals all that has been done in the past three years aince the Conference of all the Committees makin Hombey, and appressed the strong opinion that committees on the conference of all the Committees are in the conought to be done to give systematic jeaching, diracted to the formation of character and the collivation of the knowledge of moral seuths. The chief incident of the three years was the engagement of Mr. F. A. Gould, of the Moral Education League, to give lectures on the subject. Mr. Gould has presented a report containing a number of recommendations Government say that the standard he recommends is an ideal one to be worked up to gradually, and that as neually instruction in this country is in the nature of an experiment it is necessary to proceed cautionaly lu extending operations a beginning should be made only in those schools, primary and ercondery, where conditions are clearly farorable to sacrass and where teachers bace particular qualifications for the task. The Director of Pahlo instruction will make arrangements accordingly. Government think is dearrable to wait for the further devalopment of the movement before adopting the auggestran to appoint a non efficial Concettairs. ed to consult certain rapresentative poblio meo, whose nemes are menioned. Government say, there should always be kept in view in the course of instruction the necessity of willing and lotelly gent co-operation on the part of the citarus aith the Brato

Manual Training.—The following Government Resolution No. 1610, dated the 5th Jone 1813. Fregarding manual training at training manual training and the state of t

On the 18th May 1912. Government, after reviewing the provision made in the codes of the various

training colleges for imparting marinal training remarked that prima facia there was a case for the extension of facilities for manual training at the other colleges on the hors of the contra laid down at the Dharwar College and expressed the opinion that, if a complete course leading up to the issue of teaching certificates could be arranged at these colleges there would ensues corresponding makenla cation of manual training classes to connection with the larger primary schools and a general impetus would be given to the spread of this form of matric tion It was added that Government considered at desirable that means abould be deviced for correlating (though not necessarily randering uniform) the methods and objects pursued in imparting manual instruction in the several schools. The Director of Public Instruction was accordingly requested to anhmit, after consulting the Principal of the Victoria Jubilee Technical fratitute a report on the porsibil ity of taking action on the above lines Subsequent ly, at the insisted of the Hon Ren Bahadur Semiyas Konber Rodds, the Director of Public Instruction was asked to raport whether be const dered is desireble and practicable to establish manual training classes at B japur and other Government high schools and if so, to anhmit detailed proposals together with an estimate of the cost In September 1912, the Government of India, while forwarding the report of the Committee appointed by them to inquire into the question of bringing technical institutions into closer contact with employers of labour, emphasized the need of making education in primery and secondary schools more practical, and the Director of Public Instruction was ested to report on this point The several reports called for have now been received and the Governor-in Coun cil is pleased to seno the following orders on them

- 2 With regard to manual training in training colleges the conclusions errived at by the Director
- (a) that it is noth desirable and practicable to makinte a manual training class at each of the training colleges for men,
- (b) that the subject abould be compulsory to the first year and optional during the rest of the course when it abould form an alternative with such subjects as egricolture and drawing,
- (c) that the cores should be based upon the aystem known as Sloyd the ultimate chiect being to a tach woodwork classes to primary actools, not for industrial purposes but for the betterment of general education.
- As regards secondary achools manual transing consisting of desiring and practical carpentry, its possible of the consistency of the Carpentry of the Carpentry

- present eginfa is the Belgaum High School and the Director of Public Instruction considers that e beginning might be made by the institution of manual training classes at Satara Dhulis Sholapor, Bigspur, Aburdabad and at a cetter in Sind These conclinions of the Director are accepted subsects to the remarks mode below
- 3 The Governor to C nocil as of opinion, that the manual training to be given in the training colleges and high schools should not be of the kind which is now being given as the Bharwar Training College and the Belgaum High School but that the operation of handwork known as 'Sing'd which posseres educational advantages not associated with the ordinary forms of manual training abound to establish a spread class at which instruction will be given to—
- (a) persons who will become teachers of 'Sloyd' in the high echools at which classes in that subject will in due course be established,
- (5) porsone who will trach 'Sloyd at the verna caller training colleges where broceforth every stodent will bare in undergo a Sloyd 'coore in his first year it being therealter opticoal for him to contone with this sobject or to take np drawing ne natures indy
- 4 The Director of Poblic Instruction about decordingly be required to enquire and reports what terms a competent tascher of Sloyd one bottomer of the street of the street
- 5 As agriculture has been omitted from the carriculum of primary achor is under the order to under continued in paragraph 76 (Government, Broditer and the primary achor is the primary achor in the primary achor in the primary achor in the second and third jures of the training cullege curre, and the Director of Public latteration should be asked to submit definite proposite for the teaching of seach subject are discussed for submit definite proposite for the teaching of seach subject are discussed fearuring city models and the present of th
- 6. For the present manual training on the lines above and cated will be introduced in such Government rehoods city as possess the required fredings and it must, therefore continue to be so quiesal abbject, but in any Government secondary whose provisions for imparting manual training where provisions for imparting manual training.

exists all pupils up to end including the fifth etendand will be required to take it up.

CALCUTTA

Ananda Mohan College -The Government of Indus's letter giving the ressors for rejecting the application for the affiliation of the Ananda Mohan College of Mymensing to the B. A. standard has been published. The main reasons for rejection

The application reached the Government of India vary late :

The present staff is insufficient and accommods tion not ample; and the acquired amount of Rs. 50,000

has not yet been realmed The Government intimate that if the naccessary conditions are fulfilled they may reconsider the metter.

Recognition of Righ Schools, India Government's Proposals -The Government of Bengal bas address. ed a letter to the Registrar, Calcutta University, regarding the recognition of High Schools for th purpose of pressuring caudidates for the Matricula-tion Examination of Universities. In Madres, the Director of Public Instruction and Darbers of Director of Public Testroction seed Darbers of Fundatory States are economic authorities and in other provinces recognition in the control of Commelsion of 1902 recommended that the University abould recognise only economic within its local limits recognised by the Educational Depart-ment to accordance with dapartment roles, for the internal control of the Commelsion o red to in the Government of India Resolution of list February lest. The Government of India heve addressed this Government on the subject drawing attention to certain considerations which appear to indicate the desirebility of each a change and en quiring whether the changes auggested are desirable, whether they could heat he effected by a modification of Section 25 of the Act so as to provide that an achool should be proopsierd by a University poless first recognised by the local Government and also whether the local Government should be absolute authority in recognition ne whether a University should be permitted to arless among schools recognised by Educational Department. Considerations to which the G varament of India refer, are first, there is a demana for teaching University such as that which has I on peop and at Al garb on a basis other than terri orial. Should these institutions materialise, ne should it be found desirable to break up any of theex sting Universities in smaller onits, lines of cleavage will become complicated Secondly, the growing popularity of School Final Examination is giving to some local Dovernments a larger interest in High Schools Finelly, there is reason to hope that all Ur increities will more and more assume the function of teaching hodies. Ponctions which Universities now exercise

in respect to smilisted Colleges are already, it is understood, straining their whole energies and it becomes facreasingly important that they should not be restrained in their higher work by detailed work in connection with schools.

The Governor-la-Council is nowilling to express any opinion before ascertaining the views of the Calcutta University.

ALTAHABAD.

Registered Graduates - We onderstand that a notice has been served on a comber of registered graduates of the Allahabad University that, for non-payment of their annual renewal fee by the prescribed data (June 20), their names have removed from the register of graduates maintained in the office of the Registrar under Regulation 5 of Chapter XXVII of the University Regulations Wa are told thet it those registered graduates sey the record for now, they stand disenferanchised till next year. This is rether hard. In view of the fact that they have been seen to the second of the fact that this is the first year efter the registration was aff cred, some grace of time may yet be allowed to them. If intimetion had been given a few days before the fateful June 30, and if still some registered graduates bed feiled to pay the renewel fee, there would have been no occasion for compleint Essa life inserence companies, though under no obligation to remind policy holdere of the due dete for the payment of premie, not only do so but give them a month's grace, or more or less as the case may be, for the payment Begard being had to the feet that the total number of graduates names on the register is not large, the number struck out now appears to bare been considerable. We do not question the technical right of the Registrar to have acted as be did. But the world cannot be governed always by technicalities. In view of all the circumstances we make a soggestion and an appeal that the names of the graduates which have been struck out should again be brought on the register on their payment of the prescribed les within a specified time. the regulation as it stands does not primit such concretion, there will not surely be an insuperble difficulty to the way of its modification. The graduates should really be encouraged to exercise the provilege given to them -The Leader.

MYSORE.

The Maherant's College -At the lest Birthday Bession of the Mysore Economic Conference, the following argumen's were put forward on behalf of the Mabarent's College for the betterment of raisting conditions:--!) That to help the advancement of Higher Femele Elucation a Buarding House be attached to the Mitherani's College . . . suitable facilities being provided, as far as possible, for the admission into the Boarding House of all castes (2) That may or awa Boarding Schools for Girls of the Meddle School Standard be established in other places, that the day scholars be admitted to these schools, but the echool building, the Boarding Board and the Soperintendent s quarters be all located in the same compound . and that (3) special encouragement in the shape of echolarships of Rs 2 and Rs. 3 in the fourth and lith classes of gurle schools be given to those students who undertake to become teachere. The resolutions were post to the Conference and carried by a vote of 27 with none against. There is absolutely no quee'ion of doubt about the desirability of the foregoing introduc tions The school hostel, it is felt, has long been necessary for the convenience of nut station students, and the provision of scholarships for prospective teachers, though emall, will muits nwn particular way be of meetimable value in promoting encourage ment smoog the pupils Arrangements are stready on foot for the erection of the hestel which as to be established on the plot of ground attracted be tween the College and Marina liappu's School

Libraries and Reading Rooms—Among the presented agents of discussions at the last Senom of the National Conference was the region of the Rooms of Roo

Foreign Motes. GREAT BRITAIN

Senetific Education — A percuise system of automatication has been devised by the British Science Guild and published by Nature. The Six represents of such a system, seconding to the Contagonate of such a system, seconding to the Contagonate of such a system, second as the contagonate of the second as the absorber meetary of many more and related practical exercises throughout work and related practical exercises throughout and related practical exercises throughout and related practical exercises throughout as the contagonate of all children and sitendance at school are shown to applie the contagonate of 1. The fearth is "steading as a contensition schools for 1.1 years of the state o

who can profit by thom. The auxh is the iositio-tion of school certificates as passports for universates. The seventh is to give a secondary that the secondary that

Post Lenreateship -The appointment of Dr. Robert Bridges sa poet legrente is a surprise in its way as was that of the late Mr Alfred Austin by Lord Selesbury While Mr William Wateon is plive nobody would be to thought that Mr Asquith would esercise his patronage in favour of Dr Robert Bridges It could not be espected that a Liberal Government would choose Mr Rudgard Kipling, the bard of monousin, and we are glad for the dignite of the office that he has not been selected But if Mr Swanharns was ignored in 1896 Mr. Watson need not have been passed over now Then there is Mr Thumse Herdy but he too bee had to take a back nest by the side of the favoured doctor The new poet faurests was born in October 1834 and is nearly 69 years of age. He received his adocation at Eton and Corpus Christi College, Oxford, of which he is an honorary fellow. He trevelled for some time after leaving. Oxford and then took to the study of medicine at bt Rarthalomew s, London, where he became casolly physicac, efterwards transferred himself to the children a bounted He retired from practice over thirty pears ago Dr Bridges has written various plays and poems Among his publications are an easy on Milton's propody, a critical assay on Keats and a nember of shotter poems and plays among the last being the · Ulyssen'

LITERARY NOTES.

*Early Wave of Wesser' in the title of a certes of historical standard by Albergy F Mayor which the Cambridge University Press has nearly ready, dealing with Logiand a first echool of arms in the West Country, datung back to the pre Norman period.

Means Rautledge are extending their series of dactomaries in famous suthors with a Dictiorery of Rimacoa" by Lawis Speces; and the same firm the vest precase book entitled "All About the Boaton, dashing with the variations in the Welfa movement, by Mr. Edward Scott.

Professor W. Pitipino Trench of the National Dularienty of Ireina, heave ritten as new commension; on Stakespare's "Banket, which Meszes Smith, Elder barn ready for sain. The solitor relative from much criticism of a testual cheatert, has he noncidera at some height the driviness of the acts, the secreted derision being, in the latest the secreted derision being in the secreted derision being in the secreted derision being the secrete derivation being the secrete derivation of acts, the secrete derivation of the secrete derivative derivative secrete derivati

The Syndies of the Cambridge, University Fersa bru decided to use a series on hooke dealing with the various subjects which fall mithin the field of synchology "the Cambridge Psychological Jabray," as the series will be called will be under the general education for Orthers F Myers, University Lecturer in Esperimental Psychology, and Director of the Synchological Library,

Personal numerics of Cussics Declares a Lappily our way rack as need, and its in pleasant is have a be promise of a new volume of anch rambinerares from the pen of that industries and verestally referred to the control of the industries and verestally referred to the control of the industries and with the verestally referred to the control of the very few countings of the control of the very few commoning below, as, and not of the very few causings them.

Roo Sabib G. V. Bamamerti, formerly lecturer, Rapib's College, Perlavinid, be a translated and adopted into Telego a boot greamme in Danieb by International Confession of the Aster writers and international confession of the Aster writers and came to be translated and adopted and what purpose it is intended; no correct. Determination hope that this lattic publication may be of some use to Telego the theory of the Confession of the Aster and the follow the new or the old and the whether they good many points which are not mentioned in the ordinary English Oranners

Mesare. Macmillan & Co will publish shortly a volume of addresses, by Mr James Bryce, under she tille, "University and Hatorical Addresses;" "Economio Libersliam," by Professor Hermoun Levy; and "Indian Correccy and Finance," by Mr. J. M. Keynes.

The Mencheser University Press will shouly publish some edition of the "Cettical Works of William Drummond of Hewthorden," chief by Prelessor Kastor, of the University. The Library of the Company of th

Ogford University Press The biggest enterprise of all is in the form of a bistory of the bengage. This, the 'New English Dictionary' attempts to trace every word to its source, going as fee back the year 1200, the verying mang filterably of the year 1200, the verying mang filterably of the Jacobs of the Western State of th

Home University Library of Modera Knowledge. Cloth ir urst. Leether Pr. 65 and. The Eight Batch ready in Join committed Garmany of Twoday Orbarles Tworer [Plant Life by Pred. J. B. Farmer, Ras., The Writing of English by Pred. 20 Remote Ras., The Writing of English by Pred. 20 Remote Ras., The Writing of English by Pred. 20 Remote Committee Com

Mr. Heinemann has just published the Collected Essays of Edmond Gense, ca. i.t.b. in 8 Volumes Grown Sec. 65. sach. (1) Serentesath Centory Studies (2) Geselp in a Library. (3) Critical Kir Kata. (4) French Profiles. (5) Portraita and Sketchas.

William Monte. A study in Personality, by Arthur Compton-Rickett, Loodon, Herbert Jonkins, 7s. 6d. net.

By Georga Sampson. Let us add in general conclose that the book is really a capital performance, well-plaused and well-executed. It has the right note. As communelary, criticism, and chronicle it is equally useful It contains much interesting matter not to be found alsowhere, and sta concluding 50 page synopsis of contemporary history is a oninge and valuable feature

In response to a number of requests received from teachers The University Tutorial Press will publish shortly, under the title School F each Grammar, the grammatical part of Professor Weckley a Matricula tion French Course, wil hout the east case and passages for translation icto French This sepseste mans of the Grammer is intended to meet the views of achoolmusters who like the Grammer and wish to use it for free composition in conjunction with the Matriculation French Because

The new syllabos on the Principles of Teaching recently samed by the Board of Education for the Acting Teachers' Ceetificate Framination in 1914 has considerably reduced the knowledge of Hygrene required The optional subject, flygiene and Phy sical Training (Section L.) requires a very con elderab e knowledge of Hygiene such se can be nhtanged only from a book of the standard of the Text Book of Hygiens for Teachers For the seke of Text Hook of Hypens for Teachers For the seke of those however, who wish to take only the musmom course prescribed in the syllabus for Frienciples of Teaching asmaller volume has been severed order the title of Certificats Hypens. This deals conceely with the main principles of School Hypens and grees all the occessary information on matters with which the teacher is called oppose to deal in the ordipary course of his work

Jumor Geometry is cow in the Press Threes a pacinetry on modern lices sortable for Junior Classes ft commances with an introductory course of practical work and containes simple treatment of elementary geometry up to and including similar triangles. The book is well provided with esercises of all types 'The book is based upon the well known Geometry Theoretical and Practical.

Macmillan and Co,'s Announcements of New Books -

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SCHOOL AND COLLEGE SPORTING NEWS.

Orieket at Bangalore ST JOSEPH'S COLLEGE & TWO MATCHES

Two metches were played by the St Joseph's College Cricket teams one with the Bingelore players at the St. Joseph's College New Cricket Field and the other with the Royal Arilliery on the School ground The St Joseph's College won the first eventhy 7 w chats and 43 runs, the scores being St Joseph's College 148 for 3 wickstaund Bengulnee players 105. For the College J. Front, C. Tremeo-here and A. Renben were the best players, scoring 46 46 and 31 runs respectively C Teemeohers also bowled taking 3 wickstafor 25 runs J Front also d d well with the ball getting 3 wickets for 29 runs For the Bangalore players D Varada Rao was the highest scorer with 33 runs. The bowling of the Bengalore pluyers was particularly weak, Mr Hayes being their best howise with 2 wickets er 60 runs

In the metch against the Royal Artillery the St. Joseph's College lost by 15 runs, the acores being St Joseph's 118 and Royal Actillary 133. Carter and Vicey were the best bowlers for the Artillery, obtaining 4 wickets for 17 cons and 3 fee 15 runs respectively, while their best betamen were Shear. harn me h 45 and Caster with 23 rune respectively For by Joseph's Seaton proved the highest ecorer with 35 vars. Role who took 3 wickets for 21 rone being their h at bowler. This game was very close and proved a most interesting contest,

The Educational Review.

We have great pleasure in recording in these columns that four for the service of the mother land University have joined the

etaff of the Hindn College, Tinnevelly, and undertaken to serve the College for 20 years, the salary of each being Rs. 100-10-150. They are Mr. N. Sankara Iver. (Mathematica) and L.T.; Mr. K. C. Viraregbaya Iyer, M.A. (Chemistry) and L. T.; Mr. A. Nilskants Iyer, M.A. (History); and Mr. P. Yaguesvara Sarms, M.a. (Physics). We congratulate the Tippevelly Hindu College on this accession of strength to its staff and it is a good omen that a student of the same College should stand first in the list of candidates that passed the recent Intermediate Examination. These four young M.A.'a have set a good example to young men atill at College, in having turned asida from Incretive professions. For so had is the organization of peblic life in Indie that men who catch thieves and those who send them to jails can rise to very high salaries, that men who help thieves to escape punishment, who cause property to change hands by practising the game of bair-aplitting, but whose labour does not add to the wealth of the land by one grain, can pile their thousands, but the poor educationist who treine the rising generation and who is really responsible for the making of the immediate feture bistory of the land, who apreeds knowledge and this contributes to the growth of the country's wealth, who trains the facelties of the young and makes possible the development of the country is a despised creeture and can never be above went.

It is characteristic of the highly enlight-

The four accessions of the Mysore Eccuemic Confer-

ened nature of the Mysore Government that is the forefrost of the activities of the Mysore Economical Conference is placed the

question of Edecation and that Agricoltors and Industries and Commerce come after, thus recognizing the great truth that Education is the first source of the growth of the wealth of nations. In the words of the President, Mr. H. V. Nanjundayye, (kindly applied to us by its Secretary), " if the intelligence of our people is kept undeveloped, their skill untrained, their activities unstimulated, the average standards of working and living will remain low, and the country will continue to be populated, as at present, by ignorant, nuckilled and indolent masses who, in times of scarcity or stress, will be unable to help themselves. Safety therefore lies in educating the people and equipping them with skill and science and keeping them active (the italics are ours). This is what His Highness' Government have in view in introducing the various measures for improving the economic efficiency of our people." In accordance with this ideal, we find that the first portion of the Report contains papers on edecational questions of the greatest import and the first resolutions deal with the same subject. Medical inspection of school children, religious and moral education, the Mysors University, compulsory edecation, female education, Normal Schools, continuation classes, public libraries, physical culture, curricula of etudies, encouragement of Canarese literature and practical edecation were either discussed or recommended to be investigated. Of these, the question of religious education was debated on and we are glad to report that

it was dropped Religion should, in the present circumstances of the cunntry, he the last thing that should be permitted to enter the school room. Our children have plenty of it (and not always of the right cort) as it is ontside the school room

Medical inspection of achool children

This question, so thoroughly ignored in the Madras Presidency, was the one on which the Mysore Economical Confar ence passed its first resolu-

tion. This resolution requires among other things all medical officers to regard it as their duly to inspect all pupils in all the schoole in their station. The great need for the periodical medical inspection of pupils in this country is too patent to require any argument The troubles of school obildren are due to the utter ignorance of modern bygiene among the people. We are aware that so far as cleanliness depends upon abintion, the classes from whom the average school child is drawn are fairly clean. especially if they happen to live in places where there is a large water supply But the average parent is hopelessly ignorant of the part played by hacterial germs in eausing disease and so overridden by a superstitions addiction to so called sacramental cleanliness hat resl, visible dirt as to spread a paste of cawdung under his less platter (or as Alberton cleverly put it, use a table cluth of dung), to swallow the excreta of cows in the name of boliness and to do a thousand other acts that help to spread disease. This appalling ignorance leads to the apread of disease which becomes accentuated by the congregs tion of children in over-warm, ili ventilated school houses Hence the need of a periodical medical inspection of schools and school children is imperative Moreover in must schoole, the furniture used se of antiquated. absolutely nulygienic patterns, obildren sit on them in cramped postnres, such as would check the free circulation of blood and prevent the lungs having full play Classrooms are frequently arranged without any regard to glare falling on black boards or what is worse right against the eyes of Defects of vision, disease due to the alarmingly fast apreed of cigerette-smoking and other unnemeable vices, which the average cohool teacher can acarcely detect, abound in hove at school None but a trained medical man can detect and remedy these numerous evils. As doctors enre the present generation of fully developed diseases. at as these duty also to no eval an the had an the case of our schoolboys who will form the next generation In our view, the latter duty as much more important than the former,

We wish to place before the people who, at the bidding of a small Sciance and minority of Fellows of the National life. Madree University, desire to chatter to pieces the, so yet not extensive enongly, organization of science teaching in par Colleges by demanding that an unwilling, hopelessly mefficient and too soon forgotten atndy of our ancient vernacular literature should be made compulsory in Colleges at whatever cost, the arms of the British Science Guild which was presided over last year by Lord Haldane and is presided over this year by Sir William Mather The British Science Guild exists for teaching the vital importance of nang scientific methods in the common things of life Sir David Gill, speaking at henonat of the Guild, efter deserthing the various steps in the progress of science, and, "All these are steps in the progress of mackind, in the betterment of the conditions of life, which we owe to science end science sione. I sm awere that there is still o school of men who contend that we are no happier or better for this progreso. [These words exactly hit off the position of our reactionaries who, so persistently, fight in our Senote against the progress of scientific study in our University). I need scarcely any that I do not agree with them; but I do not propose to here you with arguments on so trite a subject; the simple fact remoins that if we, in these little islands of ours, do not progress with the times by the aid of science, we shall he loft hebind in the race of progress." If this is so in the cese of Eogland, what will it he in the case of our country where the science that is learnt in Colleges is that fit for a good High School and where the science that is pretended to be taught in High Schoole is less than that which night to he leaent in a well-organized Elementary School, and where the people that study are lamentobly few, those that sllow science to influence habits of life are fewer and those that use science for improving their daily work ean be counted on one's flogerel Even this little science, misguided enthusiasm wants to stifle out, to the name of Eastern eniture! That edocated gentlemen should fight nominat the spread of national eduestion, that liberals to politice should fight egainst progress in education, almost ansettles one's faith in human natore.

The Royal Commission on University Education in London has among

The School Leaving Certificate io England of the Moderation of some form of the S. L. C. "The normal conditions of the S. L. C. "The normal conditions of the S. L. C."

msl qualification for admission to the University will be a school examination based on

the corrieulum of the school. There should be two such examinations. A lower schoolexamination planued for pupils of about the age of sixteen, which should he a test of general education, and a higher school examination planned for pupils of about the age of eighteen, which should be enitable as a test for pupils whose course has to some extent specialized." Either certificate will qualify for admission to Colleger, but the higher certificate will entitle the stodent to he excused the Intermediate Examination in the enhjects in which he has second the higher school certificate. This peculiar eystem of double certificates has been necessitated by the fact that English Schools and Colleges have evolved independently of each other and therefore school corricula and college ourriculs, in many cases, overlap. Moreover, in England the average schoolleaving age is eighteen or nineteen and not fifteen as in India where every parent desires to see his son in College as early as possible. Sometime ago, we advocated the introdoc-

tion of a Lower School A double S L C Leaving Certificate in our in Madras. Presidency. The recommendations of the Royal Commission referred to shove gives us an opportunity for discussion egain. Our present S. L. C. Scheme has given us a apecial unity to the work of the IV, V and VI Forms of nor High Schools which it had not before. This work is "to some extent specialized," like that which pertains to the higher certificate proposed in London-We, too, want o lower certificate relating the "general education" which is given in our what were once ealled Lower Secondary Schools. Recently our Edocational Department has unsoccossfully tried to wipe out the individuality of these schools; it has tried to roduce people to concerve the High School as one indivisible unit and in the promulgation of this idea, tried to "affiliate" incomplete Secondary Schools to complete ones But smoog other things, the S S L. C scheme by endowing the work of the three higher forms with a special judividoshty has contributed to sharply the special work covered by the scheme with the general edocation given up to Form III The former is conducted in English and the latter in the veroscular and up to Form III. English is tanght as a (foreign) lauguage and is not need as the medium of instruction. It is high time, therefore, that the esparation of school work into the Lower Secondary and Upper Secondary be reintro duced This will give room for the introduc tion of a Lower Secondary School Leaving Certificate scheme. For want of ench a scheme, the work of the higher forms is still hampered by the retention of enbjects which really belong to the lower school The B enhyecte of our S S L C ought really be done in the Lower School in the ternacular and the time devoted to them in the higher forms used for more work to Eoglish and in the special subjects Some such acheme will relieve the immense strain now felt in the bigher forms and also make the work of our High Schools much more satisfactory than now But to make some such scheme possible school life must be made longer than new by at least three years, provision heing made for exceptions who might like to push on early

What we call composition is called "free " composition in The Marking of "Free" composi schools, for they call com ties position what we call

education

treuslation The marking of free composition in many schools is done very 10d fferently A writer in Modern Language Teaching describes his own method of marking which we commend to the attection of our Eoglish (and msy we add) Vernacular mastere Jemeson writing of Eoglish schoolhoys learning Freuch, expects them to write 100 words in 20 minutes on e anhiect based directly on the text read dorseg the term For an "nuscen" sobject he would allow 30 minutes for 100 words, hot Euglish composition on 'nnecena" has been practically abolished from our achools, we shell discuss only the marking of composition on subjects selected from the hooks read Mr Jameson would expect 600 words in two hours. Now 600 words of ordinary handwriting would cover four folio pages If we compers these figures with what the Madras University Matrionla tion Examiner expects of his exeminees, we are bound to jufer that the Madrae Examiner has been so far, as extortionate as Shylock English, to Indian hoys, is more foreign than French to English boys, the difference of idiom and structure between English and a South Indian verosenlar being much wider than that between English and Freech Yet the first paper in Eoglish to the Matriculation Examination, as things go now, cannot be answered to less than sixteen pages, foor times what Mr Jameson would expect, and the candidate, who has been hedly trained. writes twenty to thirty pages As this is a question which has a vital bearing on schoolfor going to England to complete their work we will retorn to it in our next issue Meanwhile we will retorn 'to our mottons' Mr Jameson would allow tan marks for every hundred words required god "take one mark off for every three mistakes, so that if a composition of 100 words has thirty mistakes

in it (or more) it receives no merks at all. I do not find it, as a rule, necessary to discriminate between slight and very bad miatakes, the one kind balancing the other un the whole; where, however, blanders of a very gross kind are repeatedly made-e.g., in thu use of imperfect and past definite [the corresponding thing in the composition of Indian boys would be the evstematic violation of the sequence of tenses]-the composition is expressly pensized. No blanks are, of course, allowed in a free composition, each blank left, being as a rule, counted so three mistakes." Another vexed question in marking free composition has been very satisfactorily solved by Mr. Jameson. "In counting the number of words written the continual repotition of the same words and expressions-'padding,' that is-io watched for and discounted. This does not, however, apply to the 'opinning out' of one poor idea, so loog as varioty of expression is secured. Oo the other hand, a particularly well-knit and well thought out composition, say, 85 or 90 words, fairly covering the enbject, will be reckoned as equal to a mere rambling one of 100 words." So far the method of marking looks terribly statistical and mechanical. This is moderated by Mr. Jameson by general impression. " Before this mechanical marking begins at all. I read through each composition, recording it mentally as an 80 per cent. 70 per cent., 55 per cent., 30 per cent., composition as the case may be; the result given by the mechanical marking nanally corresponds; in any case, the balance is finally atrnck on further consideratios," We recommend this system of merking to be tried by our readers and request them to write to ns how it works. We will take up this subjoct again when our public examinations are being held,

Mr. Alfred Austin died in June last, rendering vacant the post-lanreateship which has been The Past Lauresta. "virtually vecent since the Mr. Anstin was a writer death of Tennyson. of powerful leading articles in the conservative interests in the Standard. The award of the post-languateship as a reward for excellence in political polemics was ano of the grim jokes which amnaed the soul of the master-atatesman, Lord Saliebury, Mr. Austin's 'poet's eye' was totally blied to thu polish of Tennyson and the condensed tabloid locution (if we may be excused the phrase anggestive of hitter drugs and dramatio genius of Browning ; Mr. Aostin's Paudit coul revolted against the vigorous vernacular of Mr. Kipling and the great manner of Francis Thompson. He swore till the end of his days that none of these were great posto and believed that the whols critical world which had adjudged him minor poet was "eaturated with prejudice and ateeped in party spirit," Oos of the most eminent of living singers of Eoglish song, Mr. Robert Bridges has been appointed in his place. Mr. Robert Bridges has besides his pootical work, devoted much time and energy to the question of concerving all that is musical in English apeech and securing it from degeneration. We wish that his artistic soul will unt be compelled to do indifferent work in justification of his lanreatoship, for even Tennyson when he wrote poetry to order, could not give of his best. The poet's cagle annl can float unly in an atmosphere of perfect freedom ; compulsion can but produce Pandit-poetry of which we have reams in this land, as our schoolboyo know to their

cost.

The only use of augar most people are acquainted with is ite use Sugar in in eating Some people manufacture

know that it is need for bardening mortar This bardening action of sugar on mortar was known in Ind a more than 2 000 years ago The ancient Romans imported sugar from India for this purpose and they called it 'Indian Salt" Some aucient mesonry treated with sugar still stands in good condition. In our nwn days, the Museum of Natural History in Berlin has been rebuilt with mortar enotaining one part of lime one part of sand and two parts of engar Modern industry peca sugar in innumerable other ways Copying ink is made by adding one part of angar to three parts of writing ink Sugar is used in the ailvering of glass mirrors It is used in several chrome tanning processes as well as in dveing Some amlyne dyes contain as much as 90 per cent of sugar Over thirty kinds of explosives contain auger Moreover augar is used in the manufacture of transparent soap, in which

industry many tons of sugar are consumed

every year The shoc blacking industry is another that consumes sugar

Col Burrard, Surveyor General of India. has in a communication to The roots of Nature completely upset mountains

the old theories about the urigin of mountains. He disposes of the theory of the fluid core of the earth shrinking away from the outer crust by pointing that when bested rock or glass abriuks this phenomenon does not take place, but on the contrary, it is the surface that eracks Col Burrard auggests that nuder the clay of the Indus and the Ganges, there is concealed a huge crack of the earth's crust which crack provided the force which thrust the Himalayas up According to the old theory, mountains float in the deuse liquid core of the earth as ice floats in water . if so the 4-mile height of the Himslavan range is supported by a 38 mile depth of rock below But pendulum observations at Himalsyan stations disprove this and therefore the floating crust theory of which it is the sequence Col Burrard's views are also in a lius with recent American npinion of the aphiect.

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INDIAN EDUCATIONAL PROBLEMS

By Tue How T V SESSAGIST ATTAR, BA BL IT is bardly recognised in this country that there is any educational problem stall It is considered more as a rule of three where, given a certain sum of money, the question will be bow many echools shall be started and where they shall be located If there are other ques tions coming up for discussion they relate to the affiliation or disaffiliation of institutions and they have no connection with the fundamentals of the educational problems I do not think the Government of the country vecognize that there are pressing and momen tons educational problems to be considered and solved Certainly they would not admit that XtX

a non official like myself is capable of dealing with the educational problems of the country. None the less, in my opinion, there are very serious questions connected with education to be discussed, and although it is not possible to exhaust the various aspects of the ones tions and the various subjects connected with education at one meeting. I want to draw your attention this evening to a few funda mental propositions. I shall discuss the ones tion of education from three standpoints, namely, education as it affects the people of this country, education as it affects the country steelf and education as it affects the services in this country I do not claim that these givisions are logically exact, but they serve the purpose of enabling me to state what I have to say from these three stand points There is one matter for congratula tion which I shall hring to your not ce at the outset and it is this Ten years ago it was considered that every departmental difficulty experienced and every purest the country antiered from was attributable to edu cation That was the policy and view of the Government ten years ago Fortunately for us all a new view of the purpose of education bas been metilled into our minds by the advent of our Granions Sovereign King George in reply to the address presented to him by the Calcutta Convocation said that it

is by the spread of education that unrest can be removed, that it is by the spread of education that ignorance can be removed, and that unitation and a healthier life can be giren to the people only by the apread of education. Therefore, the view taken by our Gracious Sovereign was fondamentally oppored to the rion which prevailed ten years ago. As a result of this new state of affaire larger grants are being given to education than ever before. Ten years ago educational grants were made only after having financed all the other departments. To-day, the needs of edocation are considered before making grants to various departments. The question is bow shall this awakening, this new spirit in educalinn be atilised for the fortherance of the cause of the country.

Ten years ago, as I told you, an attempt was made to check the apreed of higher edocation in the belief that it is by the spread of higher education that parest was being angendered io the minds of the people. Then a further tden took root that elementary education should be more largely given and that bigber aducation should be made self-supportion. The idea then was that elementary education. secondary edocation and University education should be regarded as three different branches with no connection with each other. The ides was that there were certain persons who were entitled to receive elementary education, that athers should be given secondary education and should stop there and that a third class which was able to nav ita own way should be given higher education. That idea should be completely changed. The move in this direction comes from England. About a fortuight ago Mr. Joseph Pense. Member for Education in England, in presenting the educational hadget, stated

that alementary edocation abould be a part of University education. We have not got a verbation report of his speech now, hat we know what he meant because four months age he spoke upon this subject. Not only be, but Lord Haldane and Lord Crown spoke co the anligest at a complimentary dinner to which they had been invited. At that dinner Lord Haldane said that the object of the Liberal Cabinet is to give education to the people in such a way that the best intellects shall be brought to the tor. The Lord Chancellor explained it by saying that slementary education is the Lirth-right of all and that it should be given to avery one. It's boy shows capacity and more than average inletligence, but is poor, it should be the duty of the State to acable him to pass from the stage of elementary education to the stage of secondary education. Then again, if in giving secondary edocation It is found he is a remerk. ably clover young man and that he is moshle to pay his school fees for porsoing studies in s College, the State should come to his aid for the purposes of giring him higher edocation. The Lord Chaptellor said that it is in the interest of the country that the best intellects should be brought to the top. It is not in the interest of the individual alone that the State should work up in this direction, whether tha individual entered any department of the State or any independent profession. The Lord Chancelloe said that in the course of a year a Bill would be brought which would give espression to these ideas which were working in his mind. He used a metaphor which is very significant. He was, you will remember, War Minister hafora becoming Chancellor and he said there must be con single army corps and that avery soldier must espire to become the Commander-in Chief, a General, Captain and so on He eard that st woold depend upon the endurance of n man whether he is Captain or n General or a Commander-in Chief, but that there should be no restrictions placed in the way of a soldier attaining the highest possi ble position He said that the education scheme must be so framed that it would bring ont the best that is in man so that every one who shows exceptional capacity would be able su the end to come out at the top and be of service to his country. If that is the view which Lord Haldane is going to press upon the British Government, I think that view is more necessary in this country than in Eogland In this country for a long time only certain classes have been in the habit of giving themselves education and other classes have been neglected There ere talente which are not brought to the top and as the Lord Chancellor would say it is the duty of the Government to frame the educational policy in such a way that the hest intellects and talents whorever found, in whetever community, shall be brought to the top so that every exceptional intellect and talent may be of service to the Government and the country In this connection I desire to quote to you a very pregnant utterance by Preadent Wilson of the United States The language which he employed has taken my fancy so much that this is not the first occasion that I anote his utterance I anoted it at another place to referring to the eleva tion of the depressed classes if hat he sund was that nations are made from the bottom and not from the top, that genius springs up from the ranks of the noknown and that the real wisdom of human life is compounded out of the experiences of ordinary men. The phility, the vitality and the fruitage of life does

not come from top to the hottom It comes like the natural growth of a tree from the soil up through the trunk to the brenches and the foliage The idea underlying this atterance is that you should educate the classes which have not hitherto received the benefit of education and try to find out and bring on the best intellect in whatever community it might exist so that it might be of service to humansty You connot always depend on intellect which has guided the destinies of world The endeavoor of the Government of any country should be to educate the lowest classes in such a way that the dorment teleuts in that class should be brought up to the top and made available to the Government and to the country The educat onal policy of this country must be so shaped as to make elementary education compulsory on all , it abould also he a part of the University education and that secondary edocation should be the intermediate step and these three different branchesof knowledge should not be kept apart from one another. That is the problem which you should press upon Government and which I hope the Government will in the fulness of time recognize

meet will in the falcess of time recognie.
The serond problem is what is the nature of education which ought to be given to the people. In this country for a long series of years before the advent of the British role we were in the habit of receiving hierary education and if I am not mistaken in my reading of history, that has been the run of this security. It has easiled as to survey certain attacks and it has saved as from total extruction whereas other nations have died. But infortunately it has not made us a instinuable tasks and against other nations have died. But infortunately it has not made on a instinuable toaks and against other nations in competitions, and remerquently thefirst question that has to be considered in whitefre the arostolic sur-

cession by which the British Government have followed up this literary education in this country has been rightly done and whether the time has not come for a change in the neture of education. In the nourse of a lecture on the education of the cutizene given by the Bishop of Southwark about four months ego, he pointed nut, speaking of England, that the education given by the Universities of Oxford and Cambridge was not the sort of education that Englishmen wanted and he said that the education that was required by the people of England was that kind of education that would make them ase their eyes and hands, education which would enable them to earn their livelshood and to applement the resources of the country. It is cariums that in the "Review of Reviewe" received a week ego there are three articles non this sphiect written by three different experts. They all referred to the same question and all expressed disappointment and dissatisfaction with the existing state of affairs and they all say that the time has come for a cumplete change in the curriculum of studies in Eugland. One of them, Dr. Grey, says that the education given in England is fit only to produce achoolmasters and curster and that is not what the country wants. I don'bt very much whether we can cay es much of the education given in this conutry. Certainly education given in our Universities, I do not mean any offence to the echoolmesters here, is not believed to be capable of producing good achoolmasters. We are told that Indian schoolmasters should not go beyond a particular eten, they are tu teach only up to a particular standard and after that comebody else chould look after the students. The outhorities are not satisfied that our Universities and Colleges really

produce first-rate schoolmesters. Are we producing curates in very large numbers? Seeing the curriculum of studies suforced in our Colleges I doubt whether it is possible for any one to have still something of religion left in him after the College course. We cannot therefore say of our education that it either produces good schoolmasters nr good curates. Therefore even the recommendation which the English system of educatiun has is wanting here. Mr. Murgan in the "Review of R-viewe" says : that a remedy can he found for this hy making Universities give husiness diplomae. That will only go some wey towards remedying this evil. In Eegland there are Commercial Colleges and Universities, Still disappointment is felt et the nature of education given in Oxford and Cembridge. If it is so in England where commerce had gained such a strong footing and where there ere Commercial Colleges and Universities, what shall we say of the education that is being given under the auspices of the Government in this country. There is no dunht that Government will here to change its policy altogether.

Sn far as the Madres Government is concorned an attempt was made suriously and etrongly to supply this defect at the Conference held in Ootscamund in September, 1908. It was recommended that Commercial Colleges should be established all over the country and that there should be experimental factories established in which education in industries should be given and that that alone would satisfy the requirements of the country. The proposal of the Madras Government went up to the Secretary of State and it was a Liberal Secretary of State whn brought up the old formulas that the State should not be in competition with private enterprise, by pioneering industries and subsidising industries. The Secretary of State sent out a Despatob which, so far se its Eoglish goes, is one of the best Despatches sent out from England But it left a good deal to be desired. The result has been that this aspiration of the Madras Government to help the people of this Presidency in the metter of industrial progress has been nipped in the had. I believe that the time has come for the Government of this country to stop any direct attention being paid to Arts Colleges for fifty years and more There have been model Colleges all over the country These model Colleges bave enabled other bodies, Indian, Missionaries and others to etert Colleges of their own So far as ppre literary education is concerned to my humble opioion that must be left entirely to private bodies and those some of moosy which the Government are spending upon the main tenance of model Colleges and which they propose to increasu also by the establishment of model schools shoold be ntilized for the purpose of establishing Commercial Colleges and experimental factories for imparting industrial education examine the statements made by Lord Morley in that Despatch that the State abould not encourage competition with private enterpress and should not subsidize and pioneer industries. If you have been reeding the debates in Parliament you will find that about five years ago the present Chancellor of the Exchequer asked from the Government for a large anm of money for the purpose of anbeidizing agriculture lou see that in England where there is a good deal of commercial enterprise the State does not want to enbaidize industries. It is a country in which anssignent attention is not paid to agriculture So, a fund called a Development Fund was

canctioned by Parliament for the purpose of enabling people to clear forests end to bring large tracts of land under cultivetion end otherwise help agriculturel porsuits. Is that not spheidizing? Again large sums of money are to be given to cotton growers to anab on cotton trade Is that not anhandizing industry? Take the Railways in India Is not Government competing with private enterprize in spending large sums of money in pushing on Railways? What about the funds which have been given for eterting tea and coffee industries in Assem and elsewhere? I can multiply instances The truth is the interests of Manchester are paramount and no Government to England will dere to go against the wishes of Lancashiro and Manchester That is why they are not willing to have experimental factories etarted to this country and to give industrial education more largely than has been given hitherto I must sound a nots of werning although I know I am too magnificent to be taken note of by Government If you are to spend money required for education, if you are to improve eanitation, if you are to make the condition of the people better than ever hefore, end if yon are to put down epidemics, you will require large come of money for all these purposes and van can no longer tax the land You must get this money from the sudnstrial development of the country, and nuless you are prepared to give the go-bye to the old maxims with regard to subsidizing, etc. and unless you are prepared to come to the rescue of the people by starting Commercial Colleges and factories, you will find yourself in a position of bankruptcy Until the people are awakened to a sense of responsibility, the Government may not beed this warning and I sincerely bono my feeble voice will find

echoes throughout the length and bresdth of this land.

The third subject of my lecture raises the question whether the curriculum of studies which the University is now enforcing is calculated to give to the services, whether Government service or independent service, that amount of knowledge and education which those services do require. I am particularly referring to what I cannot belp calling as a craze for specialization. What happens to-day is this, a how in the fourth form is required to specializa and is asked to choose what particular branch of study he should take up. Our boys aru no doubt precocions, hut I should think that it is too much for Government to expect uvun thum to have that extraordinary knowledge at that stage of studius to make up their minds about their future. Many a young student finds that be is utterly mistaken in choosing a particular course of study and that he is a ruined man. From the point of view of the services is it right that these hoys should specialize from the fourth form? Twenty five years ago the state of affairs was quits different. Before one was asked to apecialise, one had to study something of Physiology, European History, Indian History, Montal Philosophy and the Vernacular. That general education enabled him to think for himself sud to make his chuice. Further that amount of general knowledge is absolutely necessary to suable a specialising atudent to understand his subject fully. To my mind above all things an attempt should. be made to reverse this policy of specialization and to go back to what existed twentyfive years ago. Otherwise nur boys would be ruined and the services would be ruined.

The Bombay University has resolved upon asking Sir Alfred Hopkins to be expert

adviser to the University. Madras may some ask for an expert adviser. What is this expert adviser to do? Does he know the nature of the country, and the requirements of the people? Unless a men is completal to speak on all these matters no expert adviser would be of any ass to ne. I hope we shall not fullow it the footsteps of Bombey in this matter. We should prefer to have some committee of enquiry to ascertain what is best for the country and for the services.

THE CORRELATION OF HISTORY AND GEOGRAPHY.

(Continued from the last issue.)

- GROGRAPHICAL INFLUENCES IN INDIAN HISTORY.

 f. Situation in thu middle of peniusular the Iranian
- system of South Asia. Access to the Iranian and Central Asian uplands—Arabia and the lands watered by the Euphrates and the Nile. The sites of some of the great ampires of ancient and mediaval times.
- 2. The physical isolation of India from the rest of the world. The sea; the impassable barrier of the North, Absence of trade or communication with Thet and Ohins, and the small proportion of the Thetan and Mongoloid elements in the population. The gates of the North-West, the aproad of corquest and civilization along the Indias and the Gauges—The Aryans and the mixed Soythians—Rajaputens, Malwa, Western coast. The importance of Delhi as as nim-coast. The importance of Delhi as as nim-

[•] I am glad of this opportunity of making grateful acknowledgments to Mr. J. A. Yates, M.A. and Mr. C. K. Govindarso, M.A. L.2., for reading the syllabuses and giving me the benefit of their value able criticism.

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perish capital and of Simla as the summer residence of the Imperial Government The hattles of Kurnkshetra (one), Thalawari (twn), Paniput (three) The Vindhyan avatom, a harrier damming back the flood of Aryan civilisation, and keeping back the Muhummadan conqueror for four centuries Thu mability of the Delhi Emperors to keep a firm hold on their provinces in thu Deccau The Western Ghats, thu customs of the Malshar Coast , thu Bhoru Ghat thu Thal Ghat, keys of the Decoau against the West Coast railway routes Moghuls and the Travancora coast atrip The mountains and hills, refuge ground of thu aboriginal trahes Hardy mountsineers, Pathan tribes, Ghurkha Want of common ties among races living in mountains. Chin bills in Burma The importance of the Bolsn Pars, its dis advantages The railway The importance of the railway system of the Punjah The forward school and the school of masterly mactivity Hill stations

Avg. 1913.7

S The Himalayan Passes Mulla Pass Alexander the Great's march from India The strategical position of Delhi The ancient Indian capital, its disadvantages Tha Thal Pass The importance of Multan as a trading centre Nader Shah back with his hosts to Persia Gomal Pass An important tradu ronte from Kahnl to Bokhara into thu Pnasab The Knrram Pass The site of sacient towas The Toch: Pass, shortest ronte from Ghazus into the Punjah Muhammad of Ghazmi lead his army for the plander of Multan in Sind The Lavher Pass Arvana, Scythians, Greeks, Moghuls, Persians Turks, Pathana its importance in deciding the destinies of the yellow race Swat Panjkora, Chitral and Gilgit Passes, later tribes of the Aryans, Alexander's march into the Punjah.

4 The Patkan bills Mongoloid tribes in Burma, Assam and Bengal Difficulties in the conquest of Burma The Western flats and differences in the development of the early Esstern and Western English settlements

Thu N W Frontier Province difficulties in conducting military campaigns Comparison with the first stages of the Boer War The Buffer State of Alghanistan

The Suffer State of Afghanistan
5 The Deccan plateau dry and comparatively cool climats Tha Military vigour
and enterprise of the inhalitants, Hindu
and Muhammadan Kiogdoms in the
Deccan—Mysore, Vintanagar. Bhammi,
Hydorshad The descent from the highlands
of Mysora to the plains more abrupt towards
the West than towards the South or East
Mysora dominated historically eastern and
southern plains rather than the adjoining
narrow strip of the West Coast

6 Malahar Coast nearer tha cautre of the great empires of ancient and medicival times than the Eist Coast Poreign invasions naturally to he expected on the Western Coest, but bivtorically rars or not happening

7 Fertility of Baluchistan, Tha Saras wat: The original direction of the lower course of the Indea Communication with Cuylon by Adam's Bridge and with Burma by the Arakan Coast

by the Arakan Coast

8 The great mountsin ranges enclosing
the Decean platean on two sides The minor
ranges breaking out from these. The dry
and bracing chimste The sterile soil ringgedates and uneveniess, the hill fort. The
position in the high road between Northern
and Sonthern India a commanding advantage
dumed to the other tablelands of Mysore
and Malwa The Maharatta Confederacy
The guentile warfare, compersion with similar
physical features in the centre of Ceylon

North West Frontier Province, Transveal, the Grampiana, Wales. Difficulties in thu colonisation of fedia by the rolling race, use of bill stations; frequent ferloughs. The Aryan and Muhummadan conquests from the N. W. The British acquisitions in South India and in the extreme east of N. India. Reason for the difference. The must essential need for ledia's physical welfare, the timely arrival and heneficent violence of S W. Mossoon wieds breaking against the atrong breast of the filmslayes and thee discharging their torrects of raio. Indra the thunderer: Marets, the storm wieds, his beloers and friends; clouds od, the middla reigon; clouds, the cows; and rain, the desceeding milk.

0. The scata of early civilization and trade. The concerned tribul nigration. Mather Ganges, Kaveri delta and falls. Krishna and Godaver, Narhada and Tapati. Sandy deltas, marshy awangs and hars together with the atraight unbroken constiline and waste of good harboars. Absence of the requisites for training a rose of sailors—exception S. W. and S. E. coasts—settled life in the plains. Less worlike.

10. The history of the constries along the lower coarse of the Gange; the unders province of Bengal distinct from those along the apper coarse of the same river, mostly luciaded in the United Provinces of Agra and Oadh. South Bibar and Tirbut (ancient Magadha and Mithia) associated historically more with the apper than with the lawer provinces.

 The Lost river; the Hakra or Vahind in Rajaptaea. During the Minhammadan period boundary helwes Sind and India. The disappearance of the river in the 18th cectury, and the coesequent devolution of the land.

12. The arid plains of Tionerelly and Madura in the south-east of the peninsels a seef-marked natoral feature becoming the seat of a separate kiegdom, that of the Pandyas at a very early date—(also acconeted for by athos differences).

13. The shallow sea-bed of Aryalur and Utatter in the Tanjure district; the boundary between the northern and the southern empire.

14. The plajos of the south east bot and fertile lebabited by indestrious people skilled in agriculture and commerce but with little leisure or energy for war and ceterprise. Plourishing kingdoms and ampires of the leficite variety of races and Carnatic. languages, strong jealousies. Part played by the gorgeons display of the French. The Freuch and the Lowlanders, the Eoglish and the hardy Highlanders. The Tapti and the Narhadavelleys; great kiogdoms audeivilised nations. Arab element in the population; the coast route from Baluchistan into Sind. Early conquest of Sind; ronte taken by some of the Aryan and Soythian tribes, the Medea, Chaldeans and Persians.

15. The riches of Tamil lands especially pearls and spices accept by acceptance of the pearls and spices accept the foreigners have not aver land. The eagerness of merchaste of European Naval States to secure the trade in these precious commodities; the cause of the compact hall Iedia by the subject of an island kingdom in the far West. The price of preper, the origin of British Government of Iodia.

16. Joint family and rapid increase in population. Forty beirs to a single economittee. The civil war nu minor reale in corté, murders. India, a temptation to celsiders. Emigration from India generally enknown. (Then Tavascase emigration from Gezeral)

Dravidian Settlements in Malaysia-Ancient Indian and Buddhistic relies in the East Indian Archinelago, Dravidian trade and shipping l Nature an indulgent mistress Want of incentive to exertion, invention and enter prise , apperstition the keynote, apirit of resigustion. The mighty forms and forces of surrounding nature Nature worship and profound philosophy tinged with the malancholy of future oblivion The steamy fertile rice plains and the lassitude and effeminate character of the people. The awest pure air of the desert. The sharp extremes of temperature and the Raipnts The Punjah The forests, the water logged and swampy plains, the scanty ramfall, the hot and dry climate, want of irrigation, the brackish weter of the wells, the bitter cold of the nights—the warlike character of the Sikhs

GEOGRAPHICAL INFLUENCES IN ENGLISH HISTORY.

The insular position of England and its connection with (a) the independence with which more than one Roman ruler acted in Britain, (b) the claims put forward by the Angle-Saxon kings to role their own little separate world independently of the repre sentatives of Casar, (c) the practical isolation of the Church of England from the Church of Rome, (d) the interest evinced by her Norman kings, mora in their island realm. (e) the attempts of Edward I. who was English to the hackbone, to nuite Britain, (f) the establishment of the systam of acntage by Henry II, which axsited the nower of the Grown, the representative of centralised national existance, (c) the national spirit which extorted from John the "Magna Charta" The "Silver stresk" as affording freedom from andden attack Freadom from continentalsquabbles The Norman conquest the last real navasion of England The ditch that Napoleon in the height of his power could not cross

2 Roman roads, instruments of Roman civilisation, illustrate forcibly the geographical conditions, connexion between the modern railwaya, in particular, London and N.-W. Railway, and London, Chatham and Dover Railway, variation of the ronte taken by the Midland The imperfect occupation of the country between the walls of Hadrian and Antonina The axtent of Roman civilisation and the thinning of it to the west. The possible need of co operation between land and ses forces as influencing the oboice of Roman atations in Britain, e q Colchester and Lancoln (Landam) The consideration given by the Romans to the Iceni and Tripohantes who were defended by natural obstacles of forests, marshes and fens in the Roman stations at London, St Albans, Norwich (Carrannonum) and Colchester. Caractacus an l Caladoniana and the respect due to the dafence afforded by mountains told their stations at Gloncester, Caerleon-on-Usk, Urecommm (Wrozeter) Chester and the line of forts between the months of the Forth and the Clyde

3 Agio Saxon conquest governed by geographical conditions, lina from the month of the Test to the month of the Severn and then continued to the south coast roughly divides the island into plana and hill regions Expulsion to a large extent of the Cells into the hill regions of the west and the north Intermixture of the Cellio and Saxon elements in Somersat and in the bevern hasin. The Tentone immigration almost entirely determined by geographical facts—Kent, Romey Marsh and Forest of Andredesweeld, Bossex

and forest between the north and south down, sorvival of heathenism in Sussex when extinct averywhere size. Norfolk and Suffolk, the deep jules of the fees, absorption of Essex. West Saxony, the alowness of its expansion. Northombris, its rapid expansion. The deley in the establishment of the kingdom of Mercia.

- 4. The Danish incorreions, the access given by the fees for this; vessels of light draught to the very heart of the island. The disposition of the Danish terms with the geographicel reason for it. The fosice of the Angles and the Danis. The two-fold part played by the fees in English History, Hereward and the Ely Fens-Alfred and the island of Atheleev.
- 5. The conversion of Eeglard to Christianlty. The landing of Aegasthe in Kent, and the spread of Intellanty from Kent as the centre to Eresz, East Anglis and Northumbria governed by george pileal conditions of England. The sets of the original Episcopal sets, namely, Canterbury, Rochester, Winebester and Salishary, stc., located on a consideration of the geographical and political importance of the places smalloced.
- O. The geographical differences originally quite natural, but artificially prolonged, between Mercia and Vessex and their influence in deciding the issue of one of the most important later in initiatory, the hattle of Hastinger. The dissolution of Cont's cardone an important factor in mirjing the country. The creation of Palatine sarddoms. The geographical border is the property of the creation of Palatine public bearings of the creation of Palatine sarddoms. Castle-building, the strongest position formed by emissiones user stream. Many of these our missiones user stream, Many of these our sites of Roman fortnesses. The tower of London, Windser, Wallingford, Oxional.

Entrance to eastern counties barred by castles at Colchester. Inswich, Norwich and Lincoln. The basin of the Trent by castles at Newsrk and Nottingham, The hranches of the Yorkshire Onse and the strategic importance of York. The Aire gep, the Tees gap and Tyne gap gnarded by the castles at Clitheroe, Bernard, Carlisle, Newcastle; Arnudel castle in the valley of the Arnn; Winchester in the valley of the Avon : Dorchester in the valley of the Frome. Exeter and Tiverton in the valley of the Exe. Taenton in the valley of Tone, Bristol and Davizes along the course of the Avon. Great entrance to the Midland plain along the Severn defended by castles at Berkely, Gionesster, Warwick and Kenilworth. The distribution of the lands of the great marcher families with the geographical and strategic importance of their eastles, eamely, Chestec (N. Wales), Hereford (S. Wales) and Shrewsbury (Mid. Wales), Chapstow, Strongbow's fortress at the mosth of Wye.

The long period between the Normae conquest and the close of the middle ages shows bet few changes in England which hear on gengraphy.

- 7. The Wars of Roses, and the Gret Robellion. The line roughly dividing the plain from the bill region; also the same hetween the parties. The preponderance of London and the south-reast. Wales as of the ment to be recknored with. Wales and Larcaster, Gloocester and York in determining the last campaign.
- 8. The position of Londou as the centre of land hemisphers; neeer to the greater seaports in exietence than any other city. The advantages of Ameterdam plus the invaluable security of being insular. Insular isolation, responsible for constitutional unity

and freedom The new type of men produced by Elizabethan age Devonshire worthies

9 The division of parties in the Civil Wer fundementally one of principles Possibility of ettempting a geographical division. Tentonio England ea against Celtic Victory with the populous and progressive half. The grading influence which topography had in the groet campaigns of the civil wars. Cromwell's skilful use of a geographical fact, the gap in the Pennione at the bead of Aira Dale, Departure for political rassons from ordinary military rules, e.g. the single of Gloncestar by Charles I in 1643

10 The Industrial Revolution Shifting of the centre of gravity of England from London towards Manchester, Leeds and Liver pool The construction of Railways. Direction in fairly close accord with geographical conditions as they are and not as they were How they emphasize the importance of the capital All roads lead to London The possibility of a redistribution of the industrial population in the near future, consequent on the introduction of Electricity as a motive power The formation of the Honse of Commons originally based entirely on Geo graphy Bafore the thirteenth century, the various administrative divisons became or gamo units The industrial changes brought ebont a chifting of the geographical distribu-Bills ere passed in Lancashire not in tion London

11 The existence of the Isle of Vight, the length and depth of the Thames estuary, the deep inlet of the Severs making land communication between Wales end Devon very long and circultons. The permanent supportance of Gloncester (the lowest point et which the Severs can be bridged) in the multary history of Eogland, the Chevrots, Carlisle

and Bernick The cost strip east of Lothian-Dunber The Ponine Hills a harrier between Angle and Celt Four Scottish invasions of England on behalf of the Stnarta along the route between the Penninse and the Iriah Sez Preston and Worcester

the Iriah Sea Preston and Worcester
12 The Great Northern Railway, many
places along the route mark the dissections
termination of Scottish invasions of England,
Northallerton, Aluwick, Halidon Hill (of
Crecy) Norill'a Cross, Flodden, York, Marstonmoor

13 The proximity of Irelend to the south west of Scotland The conversion of Scotland by the Irish monks of Ions

by the fresh monks of loss

14. The two deep unlets of the Forth and
the Clyde very nearly nat Scotland in half,
all military movements tended to center cound
String which commands the Inthung—
Donbar, String, Falkirk, Cambuskenneth
The Battle of Bannockburn.

15 The policy of Edward to unite England and Scotland under one king determined by the fact that both countries formed one homogeneous whole. The turbulence of the Scottish pobles under the Stnart kings and the consequent purest and disorder to a certain extent attributable to geographical conditions Montrose's brilliant exploits Union of England and Scotland , the exclusive character of the Highlands troubles apprehended to be caused by them to the body politic of Great Britain overcome by the construction of roads. The peace policy of James I, the increase in population for want of war, the only check Coloniel ехрараюц

16 The position of Ireland. Its resources render it a dependency The Irish Sea and the Irish question, facilities efforded by the central plain to invadors. Monutains no effective natural boundaries. The effects of climate, dasastrons potent famine, antagonism between a small minority of one races and a passent majority of another race, the lack of minered wealth. Trade with Eeghand determined by obvious geographical reesons and the poticy adopted by Englash statesmen.

17. British occupation of Egypt and Easters Sudan; Railway from Port Sudan to Berber, and a second railway from Mombasa to the Great Luke Victoria Nyanza; Uganda Railway from East African Proteotrate to command access to the Sudan by alternative rontes. The military tactics adopted by the British in the lest two campaigns in Egypt.

18. Canada, conditions favourable to the development of nations on the largest scale, political frontiers conventional; was of geographical insight of the British Ambassador in cettling the boundary between Maine and Kwe Bennawick.

19. The geographical formation of the lake region counted for much in determining the method of French advance.

20. The discontinuous character of the Appalachian system, the key to the conflict between the English and the French in the New World.

21. Dixon's line between Northern and Southere States of the Ueited States of America. The importance to a fegitive slave of a knowledge of this piece of political geography.

22. Anstralia and "colonred labour,"

23. New Zesland and the "Maori question."

 The geography of South Africa inatremental in favouring the apparaetly inetinctive inclination of the Datch to isolate themselves.

 First atage of the Boer War determined by the poculiar geographical conditions.

26. The opposition of East and West from Roman timee to the present day in its various aspects—topographical, climatic, political and economic.

27. The distribution of moussic lands in Britein from the Conquest to Henry VIII's time.

28. The political influence of Wales and Scotland as geographical units of character on medievel and early modern history.

29. The distribution of Lollardy and the nation of the survival of actiquated thought and doctrine with the geographical hasis thereof and ite influence on immigration.

 The extent of enclosures in the middle ages and early modern times and their influence.

31. The parts of the British Isles, the coast lines of which are each as to attract the people to sea faring.

32. The changes that might have taken place in the history of the English conquest had the Angles and Saxone landed on the west coast of England.

33. The parts of the west coast on which the Angles and the Saxons probably had formed email kingdome and the belt of the country along which these kingdoms could have afterwards united.

34. The characteristics of the Irish, Scottish and Welsh that are not found in the average Englishman.

35. The geographical resons why Eoglish soldiers were unequal to the task of attacking the Scowdon mountains during the conquest of Wales in the reign of Edward I.

26. The part of England in which Edward might have found soldiers able to fight in Wales.

- 37 The important towns in the Denelagh that stood in the Trent basin and the hay and irvers by which the Danes could here reached the other ruling centres of the Danelagh and whether an invading army is likely to enter this hay now
- 38 The lands from which the carlicationaders of Great Britain could responshly be expected to have come, from Roman or Tentonic lands
- 39 The geographical circumstances that ensured to Ireland the peace for a time in which to develop her ancient civilization
- 40 The foreign peoples that invaded the British Isles from the time of the Romans to that of the Norman Conquest and the names of such of them as reached Ireland Whether the crytising infinences came from Roman or Tautonic lands
- 41 The historical reasons for the complete absence among the national embleme of the British Tales of any symbol connected with the sea. The design which is more truly national than that of St Georga and the Dragon.
- 42 The geographical reasons for the positions of different frontiers that existed at different times between northern and sonthern Britain
- 43. The difficulties due to the geographical features that the English met with in conquering the south and east of Britain
- 44. The position of the mixed Gaels and Invernians before the Roman Conquest with the position of the Britons in the map of A D 650 Explanation of the general similarity of the positions of these races
- 45 Supposing that Scotland were divided up into little kingdoms, the region in which the strongest states might reasonably be expected to exist.

- 46 The parts of Britsin south of the Tweed, the inhibitiants of which most vigorous by reasted the Romans held out longest against the English, dishked the reformation the similarity that exists in the positions of these districts.
- 47 Why Gloucester took a different side from that taken by the county districts of the west both in the Wers of the Roses and the Civil War
 - 48. The reasons for the fact that the largest memorials of pre historic Britain are found in the chalk downs of the south
 - 49 The silvantage which York as capital of Great Britain south of the Forth has over London The largest modern town who has the most central position in British Isles 50 Reasons for the substitution of London and Dublin for Winchester and Taxas expitals Advantage of Fduburgh as a modern capital and that feature of its position which was an advantage in ancient times but 19 nm workbless
- 51 The similarities in the position of the following pairs of towns—Scone and Forth, Westminster and London, Worcester and Shrewsbury, Clommanois and Athlone
- Shrewsbury, Cloumacnots and Athlone 52. Reasons for Iona being an excellent position for a mission station
- 53 Fisheries and their influence on the development of Eogland Fishing rights and complications in Anglo I rench relations

LIST OF BOOKS

*1 The Dawn of
History
*2 Modern Geography
*3 Anthropology

Books marked with an asterisk are specially recommended.

*4. Mao in Many Laode. *5. Men and His Work.

Mesers. A. & C. Black. le. 6d. cach.

Historical Geography of the

British Isles.

- *7. The Relations of Geography and History: H. B. Ocorgo ;Oxford University Press. 4s. 6d.
 - 8. Historical Geography of the British Empire: H. B. George; Mesere. Methnen & Co. 3s. 6d.
 - 9. Geographical Infloonces to American History : A. P. Brigham : Meesrs. Ginn & Co. 6s.
- 10. Infineoce of Geographic Environment : Mise E. C. Sample, Rs. 15-12-0.
- 11. Historical Geography on a Ragional Basis-Tha Br. Islee: E.W. Dann: Messrs, J. M. Deot & Co.
- 12. Jenk's History of Politics-Templa Primers. 13. Payne's History of the New World,
- called America, Rs. 24, Oxford University Press.

K. S. PARABEARNAR.

____ SOME EDUCATIONAL IDEALS AND METHODS.

SPIRIT of reform is in the air. Whether Ait be true or not that India is generally passing through a transition stage, it is certainly true that the Madras Educational system is. On the one hand, the University is potting the oew regulations into force and anxionaly watching the results. They hope that the regulations will jostify themselves in

the event. But I most, of course, except from this cotegory those gloomy prophets who foresee nothing but disaster from the existing educational arrangements in this province. On the other hend, the Government are busy about the re-organization of their schools and colleges and the working of the School-Leaving Certificate Scheme. Fortanately for this Government, even the opposents of this acheme in the Senate of the Calcotta University grant that it has been a success in Madras. But that is by the wey. Again, the non-official educational reformers are geoerally waging war against every existing arrangement and advocating changes in the system which will approximate it to the aystem of their days-of course the heet ona that can be imagiced. But I shall be unfair to them if I do not add that they elso advocate reforms which do not have even the sanction of experience.

It were a vain attempt to exemine all their patent remedies for the ills which Medras atadent fissh is heir to. But I propose to examine a few of them and show that those remedies are more often than not the expression of individual idiosynorasice and ook geouine educational reforms which will becefit either the country or the etudents.

The first charge that is brought against the present system is that the educatico provided is purely literary and that it does not take account of the industrial and commercial needs of the country, Pot in this form, the charge is probably unanswerable. But they go forther and say that there is too much of literary education. Now this must mean either that io the country too many people are being given this cort of literary seducation or that those stodents, whatever their numbers be, who do receive education

Books marked with an asterisk are specially recommended.

under the ananoes of the University, are given only a literary education Considering the comparatively small number of students at school or college in this country, tha former interpretation is evidently untenable If it then means that our students, such as they are, do not receive industrial or commercial education, I contend that this argument fails to take note of the history. the traditions, and the purpose of the few existing Universities in India they are fulfilling the very legitimate purpose, outlined long ago by Lord Macanlay of giving us education and culture on the lines of tha older Universities in England And it cannot be seriously disputed that they have discharged that duty nobly by ne, though we may quarrel with the mesus employed now and then or may be impatient with the slow rate of progress If these Universities are to go on disobsrging their duties, and mproving their methods, so that they may soon become teaching and residential Universities in a more complete sense than they ara now, they will have enough to do without heing asked to provide for the industrial and commercial education of the youth of the land

Nor does this argument take stock of the class of students who exter the portals of the University now Most of them, it will be readily conceded, are not fit, nor are they anxions to receive any but literary education it will be disastrons if these students who are mostly drawn from classes who have never known the A B C. of commerce or industry are forced to attndy them either compulsorily or even optionally

Bat I do graot that some provision engbt to be made for giving industrial and commercial education to our young men. But if it is to be, the agencies are not the existing Universities Nor, I venture to express the opinion, say Tuniversities 1 hold—it may be put down to a feeling of iotellectual aristocrasy—that University distinctions ongbit to be reserved only for men of letters

Again, as I have said in another place, every unit of energy available in this country ought to be used for the spread of Western ideas and culture which can be done only through the wide study of Western literatures. Almost the only agencies which low ansure the resliestion of this very desirable object are the existing Universities and it would be a dissafrous day for India if they are hurdened with other tasks than this

Another charge which is brought and very legitimately brought against the recent innovations to our educational arrangements is that it tends to too much and to too early specialisation To understand this charge properly, a brief ontline must be given of the state of things which immediately preceded the new regulations A student, while at achool, must have studied English a classical or a vernacolar language, Mathematics including Arithmetic, Algebra, and Geometry. Bistory of India, History of England, Geography and Elementary Science and must have got in these subjects a good percentaga of marks before he matriculated at the Univerarty Again behad to study English, a classical or a voruscular language, Mathematics including Algebra, Geometry, and Trigonometry, History of Greece, History of Rome and Physiology or Physiography for the First in-Arts examination And for the B.A degree examination, the atodent studied English and a veruscolar or a classical language compulsorrly, and one of the five optional branches A glance at this syllabos will convince anybody that the degree holder of the University moder the old regolations must possess some knowledge of various subjects. They know something of mathematics which cutners, according to many educational experie, accurate thinking, something of the bistory of their own country—study of great value,—and of Ancient Greece and thome and of nighty England, asmething of they sinkings, something of their resusceture or of a classical language, and I am not at all willing to conceeds for one measure that their knowledge of English Language and Interature is in any way interior to that of the graduates of the University ander the new regulators.

I sm not advocating a return to the old state of things for I hold that it is both noncoessary and ondesirable-unneccessary because the object I have fo view can be estained by other means and onderirable because the old system had some very obvious defects whose recurrence I certainly do not wish. Bot I do bold that some improvement aught to be made up the present system. Otherwise. our students will grow up in water-tight compartments and will lack that general knowledge of things which any man of true calture must be ensions to possess. What can you expect of a student who never studies a book on history-either of his country or others'-at echool or at College, but whn may Im a Master of Arts of the University? will explain how this happens: A boy when he gets into the Foorth Form has to choose the studies of his life. That were an avil by itself, but its consequences are accounted by the fact that the syllabon is so arranged that, when the student chooses any subject on bo has to do, there is no provision made for giving him that general collure which will, in some measure, counteract the evil effects

of this too serly specialisation. For the only soliects be has to study compulsorily ere Loglish, Vernacular Composition, and Elementery Mathematics and his optional group-Let us essume that the stadent chooses a Mathematica Group. Then he has to study only these subjects. Of course, he has also to study the subjects under Group B, which comprise Indian flutory, Geography, Elementary Science, Drawing and Gymnastics. But-and this is important-thu student is not examined in these subjects at the public examination. The contequence of this provision is that sufficient attention is not paid at school to these subjects. I make this statement very deliberately after some expeneoco of how things are done at various schools. Hence it happens that the student may practically matriculate, i.e., be admitted soto the Intermediate class, without ever basing learnt enything seriously of the Listory or the geography of his own centry or of fingland or of ordinary scientific facts which any curious student must be anxious to learn. When in the lotermediate class, the student is no better, is perhaps worse. If e studies English, Veruscolar Composition, or Sanskrit translation, and one of the optional groups. Let us assume again that our student chooses the Mathematics group. Then the same phenomenon will be repeated. So that the student will enter on his studies for the R.A. or the M.A. Degree examination at the University without eny historical or scientific knowledge-s state of things which could never have happened onder the old regulations.

Thus we shall soon have graduates of the University holding the highest distinctions it can offer, not knowing where Delhi, the Capital of India is, or what part it played in the history of India, gravely doubting whether Harshavardhana is tha name of a king or of a province, whather Anrangezeb reigned before or after Alber, whether Clive was an English or e French general, or why the great Proclamstion of 1858, if ever they hear about it, is called Misgna Carts, and not by a more elegant name Nor will they know even such alementary facts as what water is composed of ar what the difference between a mechanical mixture and a chemical compound is Thay will never know the causes of lightning and thunder and perforce attribute them to tha wrath of the gods and they will seemesly doubt whether the earth, solid as it is, moves round its axle and round the sun They will elso not know where the liver is whether in the heed or in the shdomen, whether there are two lungs and if so where they are And if you talk of intestines, they will absolutely he at sea I do not deny that they may know some of these facts, but, if they do. they will not owe it to the training which they receive at school or at college

I grant that, theoretically, there is provision in the school curriculum for the teaching of Indian History, Geography and Elementary Science under Group B But since these subjects are not prescribed for the public examination, sofficiant attention is not pain to them at all in many a school if this state of things is to be rectified at all, a more chighly position aught to be green to these subjects in the school curriculum

There is one corrows feature of the new regulations which, I think, is worth while pointing out I refer to the position of Indian History in the corricula of studies. It will be readily conceded on all hands that thu study of the history of our country must

form an integral part of the education of our students. And yet what do we see? In the school energenium, as has been pointed out ebove, Indian History is made to rah shoulders with Drawing and Gymnastics under the neglected Group B Further, there is absolutely no provision made for the study at achool of Indian History as an optional group Henoa there is no opportunity for a student, however desirons he may he of atudying Indian History as a special subject. to do so Again in the Intermedista classes there is no room for the study of Indian History for it finds no place aven in the optionel groups. Again while fortunetely for the ordinary B A Degree examination. Indian History is not thrown overhoard. Indian History is only an optional anbiect in the correction of studies for the Honoure BA Degree exemination Of course no une enhyect is compalsory in the History group for that examination. But that is no argument. Sorely we cannot contemplate with equanimity tha phenomenon of the graduates nf our University going out with their M A Degrees in History and never having seriously studied Indian History at school or at college This was not possible under the much abused nld regulations Nor is it on a to be tolerated any longer

But the 1a only one of the evils of the creats for specialisation of the creats for specialisation of the creats of the created But each has its own place and nuthing but disaster will result if this hobby of specialisation is ridden to death as apparantly it, ander the new regulation I contend that, while at school, a boy onght to receive general culture in a fairly large number of subjects, so that his outlook may

be widened and he may have the very necessary, though chesply ridiceled, equipment of knowing something of overything. It will be time enough when he goes to college to choose his subjects. This is advocated also because the hoy at school cannot really choose well at such as early age.

Another charge which is brought against the present system is that, whether noder the old of the new regulations, it does not give any religious education. A distinguished citizen of Madras said the other day that he mans has a hardened man who came out of our schools and colleges with any spark of religious let in him. It way has be that the question is whether the ideal of true education is to make our students religious while as school or at colleges.

The only rational ground on which the teaching of religiou directly by means of lessons usn he advocated is that thereby our atndants will be trained to lead honest and pure lives. We are all vary anxious that one students should lead such lives. But I am very doubtful shout the wisdom or the efficacy of the means suggested. It is much more likely that a studeot will be trained in the practice of moral virtnes by becoming acquainted with heroic examples of man and women who, under trial and temptation, have never swerved from the path of virtue and honour. I will go further and say that they can profit only by the examples of men, like themselves, having the same failings and weaknesses, who were able to transcend them with efforts which, however difficult, are paly human. Can the same be said of damigoda and god; incarnate who are always able to press other than human agencies into service? Our students may read of them with swe but they will always put them, on a separate

pedestal, when it comes to action. I say it with great regret, because I am a Hinds and proud to be one, but the interest of trath demand that it must be said that most of our Rishin and some of our gods are not paragone of virtue.

It is again proced that our students must get to koow something of their religion while at school or at college. It may be expedient, but certainly the place to learn it is not the school or the college. But I question whather it is even expedient, for our atadents are of too tender an age for them to judge correctly on abatrose questions of religion and philosophy. And it will he time anongh for them to study and judge of these questions when they enter life. If it is feared that, unless they are introduced to religion enrly, thay will not care for it afterwords, then something is wrong somewhere else end not with the students. The analogy of politics will illustrate my point, It is fairly evident that most, if not all, of our students will have to take some shara in the politics of the country (I use this phrase in a very general seess). And yat we know the scrapplons care with which the study or the discussion of politics is kapt away from students. And the ground alleged is that our students are too immaters to judge of political questions. If we are to be logical, s portion of this argument applies to religious questions also.

It is regrettable that, in this craze for religions instruction, so attempt is being made to attend to other more important subjects concerning the formation and development of the character of our young men which is after all the best equipment they can have in life. To accura' this, it is necessary we must get as teachers of our yours men—men who by their lives will show what it is to live bonestly, honourably and usefully One such good teacher will do more to the improvement of the character of our students than hours of tessons on any religions testbook. And if we all spoke the truth, we must say that a particular teacher or precisors has hed more to do with our ideas and ideals than any other influence. After all, young men all over the world are heroworshippers and if only they are hrught into contact with good and high control men, they can wish for no better fortune.

There is one other subject on which I should like to say a word here. In attention is paid to the culture of the heart as each in our sobajols or colleges. It must be conceded that our young men are very impulsive and that their hearts are quick to respond. Youth is the period of generous enthusiasms. And we are letting a great source of astional corrichment untapped when we sillow our students to go into the world and merge in the crowd without having made, any attempt to hring them into sympathy with hopes and fears they do not head I attach much importance to this culture of the heart. But

I cannot elaborate it here
Finally, there as one vary strong argument
egament introducing direct religious instruction into our schools and colleges Our
country is perhaps the greatest museum of
religious corrisation in the world. And if we
are to cette to the needs of students belonging
to different religious communities, there will
have to be a considerable multiplication of
agoncy. Besides that, I am afraid it may
spoil the true educational atmosphere afra
arowedly secular school or college. I
expect from this category the proposed
lands and Amssalman Universities. I

welcome them because I am sadly consecons that my country wants more Universities which will not come except through these agencies Again they are arowedly confined to special communities and there is no room for conflict in them. There is an element of danger there too, but I look confidently to the hroadening influence of true colliers to amooth the asperities of too much religious instituction.

I have now examined three fairly typical charges against the new reguletions of the And I venture to think that University the conclusion is that, though they stand in need of improvement in details on the whole they point in the right direction. After all they have not had a sufficiently long lease of life for us to judge fairly of their results And, in criticiaing them or suggesting improvements therein, we ought to he sure in our minds that those apprealions or criticisms ers hased on certain ideals we have of edna catson. There has been so much of drifting in this country in various directions that it is time we regulate our activities by certain accepted standards

And I venture to express the hope that not many will dispute the soundness of the following ideals which night to govern our mendiate activities in educational matters—

- (1) The education which our existing Universities must go on giving must be purely
- Interary
 (2) Industrial and Commercial education
 must be in the charge of other educational
- egencies
 (3) Spacialisation in studies ought not to begin too early
- (4) Education, in its higher stages, must be specialised,

- (5) Education, so far as direct teaching is concerned, must be purely secular.
- (6) The development of the character of and the culture of the hearts of our students must be attended to.

After all these are only means to affain the end which we all have in view, i.e. tn see that the youth of the land is shie to bold hie own as against youths of ather civilized countries. And this very desirable object can be achieved if all our educationists would bear in mind the words of His Imperial Majesty in reply to the address of the Senate of the Calcutta University, viz., that we chould send out of our echools and colleges " honest, manly, and useful citizens." S. SATTAMURTE.

THE TEACHER.

IT is a common belief that teachers lead a slothful and by no means a happy life. I am sometimes inclined to consider that even anch a belief is not without its reasons, seeing how most of as have chosen this profession but as the ultimate one-having got our projects defeated in trying to secure places elsewhere. We either think that it is as easy to he a echool-master as to lie down in one beds and go to sleep, or compared with that of others, the pay of a teacher is poor, not proportionate to the difficulty undergone. In certain inetances, we are of sincere opinion that no regard is paid to us hy the public, since they think we are harmless and we think it is not fashion to be called what we ara, viz., teachers. The cause of this negligence on the part of the public seems to me to be this : People at large respect, nav. , worship wealth and power. A beggar with infinite musical attainments is reviled, is

cursed for 'his boarse noise.' A rich man with no jota of taste for music may bawl out, may utter incoherent sounds with the result " see, how exquisitely he sings! So and eo, (the so and so may be one of the hest musicians for anght we know) is nothing to him." And power, yes, who doesn't prostrate hefore at? Whn dozen't sacrifice his everything for it? But the teacher hasn't the power to condemn the actions of the public directed against him. He is, if possible, more docile than the boys under bim; so that whatever is framed or passed in a way detrimental to his interests and the interests of his boys remaine ancontradicted and is accepted as cartain. In short, the profession suffers from a state of paralysis caused by the blows of public upinion and misunderstood celf-regard i "A teacher is horn, not made." A vast gulf there is between a man who becomes a teacher because he cannot help it and another whose natural inclinations lead him on to this end in spite of deadly disapprobations of his friends and others, whose worde he is forced to respect and whose words fit him for anything hot a teacher. In the days when the natural teacher attends school as a boy, his deere is in a state of infancy and with his nwn growth graws the inborn, the keen love for the post; nn matter what comes between, no matter who sets the trap, his aime still lead bim to progress on and on, nuthing dannted in resolution till he reaches the goal, the long wished for goal of a teacher. Some divinity there is about this and this divinity the born teacher realises within himself and feels pleasure in that realisation. A sort of godly purity is infused into his

soul and he at times funcice bimself to be in

that elyeium of happiness which induces him

more and more to increase his enviable glad-

ness. The work of many in this direction proves fatile, more often fails, because they

do things for money, because they do things for compulsion, because they have na disinterested motive in the training of young minds. A superficial survey of the preceptors of olden days shows as how they taught not for money, how they taught not for others' esteem, but for the purely unselfish motive of training up the yoang for the

training's ows dear sake, readily, willingly The responsibilities imposed apon a master are perhaps heavy. In the most acconted egges of the word, a parent is responsible for the bringing up of his child, for feeding him and for clothing him till the child becomes a big boy Thereafter the hoy or the father cannot be much blamed for each other's mus understanding The case is different with a boy and his teacher The boy thrives well or fares ill in life according as the education be has received from his master is solid and substantial or ussless and not worth the sum expended over In life the recommendation of a man must be, not a hundle of letters got a bit from this official, another bit from a enperior, a third hit from a still superior and so on, but the recommendation of his own worth which must speak for him This, we see in experience, is with very few mea. The child's character is formed and modelled at school and the first impress on the child gets there is capable af development as his brains are at that stage easily susceptible to ontward infinences The teacher is to be held therefore, responsible for the first good impression of the boys A trae teacher is a blassing to bumanity rassmach as thousands take golden lessons from him; whereas a parent bat instructs his own two or three and that too

imperfectly. The root of the tree is to absorb the food materials and distribute them to its several branches. If the root is bad and the food materials worse, we need not don't that the tree will rot to its core and the brenches will not grow but wither away On the other hand, if the root is good and the materials tasted better, then the tree will be one af the most flourishing anes and the branches will flower, smile and Similar to this is the position look cheerful If he gives bad instruction. af a teacher the child is spoiled If good, the child is a heiliant anecesa

In all walks of life there is this fact to be considered, that there is a relation between the door of a thing and the thing done, and the quality of the agent to a great extent determines the character and the effects af the work turned out. In the work a echoolmaster has to do, nothing infinences character like character. It is no nee sitting idle and preaching industry, coming late and presching punctuality, being vicious and preaching virtue 'Au cance of practice is worth a ton of theory' "And all teachers will do well to bear in mind that there are no critics so kees and sharp syed, ao assessors of character so marolessly just and no abservers of the wave of others so np. decervable as children No maa can he so astnte a humbug as to boodwink bove into a wrong helief and hence no had man can be a good teacher" He should teach things nat so mach by what he says and does as by what he is

The teacher, immediatly he gete convinced that he is personally fit for andertaking it. must throw his heart and sonl and might into the service, and sympathy with the boys' psychological working is perhaps one of his

hest qualifications. He must feel with the boys a ploasure when their tender brains try to express the letent powers within. Nothing is more delightful than this to a man who likes the profession; nothing more delightful to him than to see the instruction imparted by him received almost mysterinally.

It is obvious that only rupture between two masters of whatever rank would interfere sectionally with efficient work, Without harmony in the staff, school work must, of a mocessity, saffer. Even boya may catch the infection and ongage in far more serious quarrels in defence of masters who happen to take their clauses.

And a sobolar is to be trained so that his dormant resources, whatever they be, intellectual, moral or cointife, ball be roused, and kindled to his best advantage, so that his selfishness which may be called the spring of all vices is lessened; so that his abilities, his love of perseverance and truth shall be fit examples for emulation and so that like Longellow he may say,

And departing leave behind us

Foot prints in the sands of time.

The schoolmaster's position is a very trying one indeed. Very often boye are proue to be mischlevous, insolent and revolting. In such cases it is not good to have sullen or irritable tempers. "Boys will be boys "our Principal used to remark "and he boys "our Principal used to remark "and their natures to be mischlevous." Far, detect their crimes is a thousand ways, they have one more way of committing them. A charitable construction must be put spon their motives of wrong-doing and kindness must play its part much oftener then aversity. The moral standard of the boys is only so little formed that we should not with justice decide say accordance done to see the school, as a say accordance done to see the school as

crime. And when it comes to whether we are to put a hoy to actual physical pain or to deprive him of some privilege or ploasuro, it as only when the letter positively fails that wa should have recourse to the former. In most cases, the crimes are not of a nature to deserve corporal punishment. It is quite possible and desirable that a pedagogue has the book without the hirch and is a pedsgogue etill. Under any circumstauces we shando't panish boys with a glow of satisfaction on our faces. If we do, the hove may resent having us for masters and cherish some stern feeling of animosity towards us which may lead to disagreeable consequences. If they are punished constantly, a mechanical obedience, that savours of no affection within, will be the result. The value of punishment is lost upon them and they take it as an every day affair. The relation between the teacher and taught becomes strained; and then-it becomes the case of a buffalo and bull yoked to the same plough, the one pulling towards the cun, the other towards the shade. Such must be the nature of the punishment us boys may realise that atonement is possible and that the memory of the one mischievous act may be lost aight of in doing righteons ones hereafter. Common sense dictates terme to na which many of ns are foud of superseding. Even legal instice, they eay, is tempered with

Anauta Raman, a hoy, used to come to school, two miles from his house, daily late. The master had established that the boy should place down his hooks and get up on the heach almost autometically. One day, by some strange fortune, Annata Raman had his meals earlier and cama running to achool, his heart fast beating. And just when he was entering the echool-gate, the hell rang and

generosity.

he went into the class two minutes too late He placed down his books and atood in his place

Master Ananta Rama

Boy Yes, err.

Master Im-(agmifying, 'on the beach as usual')

Boy Oh, air, not in day please I am

dogtired

Master Fool! You defy me? Up.

Boy No. sir, I cannot do it to day Immediately the master writes a chit to the headmaster telling him that Ananta Raman comes late and refrees to stand on the bench The headmaster comes with the cane and makee his enquiry. If he eides with the mester, there is niter injustice done to the how If with the boy, the master puta pr a long face He is now in a predicament A olever and kied master would have said "Ananta Raman, I am sorry for you You heve managed to come earlier this day and if you try somewhat more you can come in time This day I am pleased to excuse you" Here is an actual case. Let my brethren comment npon it as they choose

In conclusion, I may add, gramble as much we may to the musiger of an institution for the poorness of the pay, let not the dapleasure caused herein enter in any way note the regions of efficient work, and clint of physical weaknesses and the several worness which a school master is put to as any other in the interfero with the smooth and caward progress of the children in the path of right knowledge and right education "Such wornes," says one learned, capable and greatly experienced headmaster, "are to be borne as lightly as the modern appartenances of a schoolmaster, for instance,

a jacket and a turben" What a fund of patience it meant!

A conscientions discharge of duty coupled with an excest enthumism in the sacrod office of forming and training young minds, and a sincere wish and prayer for the welfare of children cutrasted to our charge must make us true teachers worthy the name

T S RAJAGOPALAN

A COURSE OF STUDY IN ENGLISH HISTORY FOR THE HIGH SCHOOL CLASSES

(Continued from page 405) REFORL proceeding to complete the scheme, a part of which I set forth in the last seene of this journal, I take this opportunity of making my ground clear on a certain point. in the method of teaching History, which, I very much don't to think, is likely to be misunderstood by some of my readers Whatever may be said of the virtues of any method in the teaching of any anhiect, it needs no mention that, even that method done to excess is, besides defeating its own purpose, also at times mischievons. In a tentative acheme of studies covering the Angle Saxon and the Norman periods, prepared by me, which appeared in this journal last month, though the acheme itself was drawn to suit the topical method of teaching in History. every attempt was made not to make that method entirely exclusive in its character and application It may be remembered that, side by side, with the topics suggested, there were also names of persons and localities, as Dunstan, Edgar, Alfred and Hastings, etc. shown in the scheme, without which important names, any scheme, prepared to anit even the

best method, is bound to be defective,

It is hoped that it will not be nut of place to examine in this connection the merits of a method, of which so much has been said in these columns and with which the present uducational atmosphere is surcharged. In the first place, the topical method of teaching History creates interest and a spirit of investigation. As this end is achieved, the cansal relationship in History is brought out and the subject can thus he scientifically treated. Failure to give a scientific turn to the treatment of the subject entails a coloable and a haueful neglect of one of the most important uses of a proper sindy of History. namely, its disciplinary value. Thus went of adherence to a good method is as had as, if not worse than, following no method at all and only tands to set at cought the disciplinary value of it, hesides curbing the analytical, the thinking and the discriminative faculties of stadents.

Secondly, the topical method tends to familiaries the pupils with the proper use of books and libraries, as the information raquired under a certain topic has to be culfed from several sources and from the several

Torice HEADINGS.

chapters of a book. The one unconscious but yet une result of all this is that every time the students exercise their thinking faculties, there is a vigorous check placed on forming, hasty opioious of bistorical facts and personages. The beneficial results of this method can be multiplied to any satent and it acts as a wholesome or a baseful weapon eccording to the way io which it is understood and made use of. In fina it may be said that the topical method is to History what the regional method is to Boggraphy and an exclusive use of it would be preposterous in the Elementary achoels, abourd in the Secondary and a mistake in the College.

I may, in pussing, auggest with advantage that, of all the recent publications in English History that accord a acientific treatment to the subject, Arthur D. lones' arrangement and treatment are of the best.

Without taking any more of your valueble time and space, I shall continue from where I faft fast time and draw a subsume to cover at present the Plantaganet, the Yorkist, the Lancastrian and the Tudor periods.

PERIODS

PRACTICAL WORK.

An Outline Scheme of Studies in English Ristory on the Plantaganet,

the Yorkist, the Lancostrian and the Tudor periods.

	DETOTED.	
1. The Rarly Agarries. 1151-1972 (1) In Proposition as being constituental Empire—His reign marked by Period of Period of struggle	3	A map of Henry II's continuations.
Foreign policy of the reign.—Last great Fendal rising.—sboltics of Fendalism.—Jury system.	m]	

TOPICS HEADINGS	PERIODS TO BE DEVOTED	Practical Work
	DEIGIED	
2 The Third Crusade—Richard I a absence from England helping constitutional progress—The foreign policy of the reign.	2	
3 The loss of Normandy its causes and effects—The Barons triumph—The rising against John not Baronial but National—The great charter ite results and importance	3	
4 The weak rule of Henry III.—The causes of Barons' hostility ending to a Barons' scheme of Government.—The Oligarchic vature of ite-The Barons' was.—The story of Semon De Monitors and his legacy to England	3	
5 Monorchy under Fdward I flus reforms—His steempts at consolidation—The Beginning of Parlisment is wers—The troubles in Scotland—The battle of Beungekhare	3	Genelogy to show the Scottish enccession question Plan of the battle
6 The Social and Fronomic charges of the time	2	of Benncekburn
If The Later Plantaganets 7 The beginning of the English heathing to France due to personal as well as to missed discontent—Fewer III a part in the Different Later County and its backers in the County and the the County	s	Genealogy to show Edward 111 s claims to the French throne Division of Frence after the peace of Birtingny Pian of the bettin of Crecy
8 Richard II s autocreey and its results The beginnings of the Reformation—Wyel file movement	2	
9 England-a constitutional monarchy under Henry IV. The continua ion of the Hundred Years War	3	Plen of the bettle
10. The were of the Roses and their effects-The State of the Berousge	3	lisp of Fegiand showing the verious battle fields
Il The fortseenth century, a century of social religious and political conducts Res of Anti Papel and Advance	3	oran and
and craft guilds Autichurch feeling towards and craft guilds Wychflite movement consututionalism III The Tudor Period 12. The popular despotism of the Tedors—The beginning of	2	
modern times Henry \ II a masterly foreign policy	-	
13 The Reformation—its origin and results—contrast with Continental Beformation—its progress during the reigns of Henry VIII, and his childre—Lerdinal Wolsey?	3	
14. The Co bolic reaction under Mary-Loss of Cala s	2	
15. Relation between England and Spain under El sabeth-The } Spanish Armada-Fogland the matress of the Seas	3	
16 Religion and civil sation of the period	2	
17 The story of England s latellectual and marriams awaken up	3	

In the above scheme under the Tuder period, care has been taken to show how during that period, religion for the first time prevails over politics.

As uneal, I, have appended a line of time covering the important historical events coming under the periods for which the scheme has been prepared. The line is divided into P parts of 50 years such, making up a period of 450 years from Henry II to Elizabeth.



(To be continued.)

S. G. Subramanian.

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EDUCATION IN THE MAGAZINES.

Poetry of the last 25 years.

Under the scopices of the Presidency College Literary Society, a lecture on "Postry of the less 25 years" was delivered recently in the College Hall by Mr. C. P. Ramanawm! Tyer, with the Hon'ble Mr. L. Jastice Taebies to the chair.

The lectorer delicered a short but interesting fecture on the subject of poetry and said that they bed get to learn a great deal of the literature of the West. They had outlisted the deys when the literature of their country could proceed on old hace Ito therefore beld that they should essimilete in their own literature all theelements of the literators of the West in order to make their own literature lieing. The literature of the fast twenty. See years in England in the region of poetry was all miscellensone literatore. Up to the drath of Trnoyson, there had been a main current of literature, and they had great mesters tike Tennyson, Browning, Matthew Arnold and the rest. After the death of Tenoyson there wee a set beck to the energet of literature and there were various davelopments. The method of Swioborne was facile and was based on word forme end elliterations, his followers merely copyiog his mennerieme and allilerations. An examinetion of Tenoyeon's works showed that in them there was an atlempt to preach and be thought that his mission was to preach and to import into literature the discoveries of new science and of new psychology. An artificial are which had coused to be satisfied with a simple straightforward narration had come into exist; ence and for expression of their ideas they had report to new fanglad expressions. Austin Dobson represented the back water of literatore. The neet school of poets was represented by William Watson who was what might be called e reflective post sod his was criticism and not creative ? postry. It was what might be called glorified prose. Another class of poets was represented by Francie Thompson whose works were nharacterised by pessimiem and revolt There ware different schools of English postry and different modes in which they wanted to appress themselves, but not one of them had established a new postio ereed or a new poetic language. They were all trying to create modes of expression and thes was the state of poetry till fifteen years ego. The question wes whather there had been a change afterwards. There had always been in England

certain persons who wrote in the old lyricel,

strain Robert Bridges, the present poet laureate could not be said to belong to any particular class of poets and he had written in a menner which was purely lyric. The mutive of poetry of the last few years seemed to be that man ought not to look so much to outword es inward and that problems of existence ought to be solved by some etrepnons psychology That was one of the eigns of the recent scientific devalopment in the West They were now in a transitional and some what oneattled mood end did not decide what the function of true poetry was But eigns were not wanting to show that the result would be in fevour of resuscitation of old lyrical impulse, and most recent hoeme were merely lyrical in the antlook.

The Teaching Grant

The first mosting of the Assessent Masters' Association, Trichinopoly, for the year 1913-14 was recently held in the Hindu Secondary School under the presidency of Mr. Venkstasphrehmanse Iyer, B A, L T. in the Cheur.

Mr M. M Belekrichne Iyer, Assistent Mester. Hindu Secondary School, was called upon to speak on The Leaching Grant and in the course of a short address, he traced the history of the Grants in Aid evetem and cetlined his proposale for their modification and extension in the future The liberal policy adopted by Government and the merseaug effection that is paid to the statue, pay and prospects of the teacher, was the only epology for e deteiled discussion of this question Government matitated the Teaching Great system for a triennium from June 1912, and under this system lemp sems were swarded to institutions for the benefit of Meeters and, though there has been evidence of complaints and dissatisfaction here and there, yet it must be taken that the eyetem on the whole hee worked fairly well How to improve it was the question Instead of small aums Government should allot larger amounts which they can now do, es thay can now give the improvement of the teachers' selaties their first considerations schools having been sufficiently equipped by aucoverive special grants and se auflicient sums cen ba set spars from Provincial and Imperial sources Sacondly, the Incomplete Secondary Schools, which have been left out of consideration last veir should be edmi ted to the benefit of this avatem of salary grant as these schools need ettention and en conregement, as much as, if not more than, the other complete Secondary Schools Thirdly, all echools should be brought within the pale of this eyetem without the consideration of surplus or deficit. There are manifolious which are well-

conducted and efficient end which have yearly sarplases and yet the scale of salary in these matitutione was no better then the one obtaining in athers Teachers in the employ thereof should not be denied the small encouragement Government do megnanimonely give in other gentlers. Proposals have been submitted by the Provincial Conference and one also made time after time by some of our non-official members of the Legislative Conneil and by leading educa tionists to elter the provisions in the Grant in Aid Code, by which Government is asked to beer the whole uf the nett cost to the menagement This system will not amply meet the requirements of the estaction Teachers employed in a large number of matitations will not be henefited and further, if sostitutions become self supporting Government will have to withdrew from the field of Secondary Ederation in the matter of eid Government can fie the minimom salary of teachers an all grades and can make the feaching grapt a fixed and a recolar contribction which can be calculated either on the salary, service, or the etrength of the scattletion. No school need be omitted on financial considerations and Government should become a co-pertuer with the Menager in the matter of payment to the teacher wherever he may be employed ench evstem of Salary Great if enlarged and extended as eforesaid, will henefit all teachers in all echools and this system of improving the pay and prospects of the teacher so dear to Government and Managers slike will be unite in keepieg with the demand made for a cognition of teachers in eided institutions as peblic servents The Tasching-Grant system promnigated and adopted, tentalively, by Government, requires to be made a permanent charge on the revenues of the State, it should be the first cherge in future, it should be liberalised with preater ellotments. at ahund ha made univareed in its emplication prespective of schools and their finance, and above all it abould be administered with greater anperpiason and routrol to ensure its proper utilization and distribution. The edoption of a ayarem I ke il in will give wider and greater autisfaction than the proposed modifications of the Grant in Aid Code

Famous Characters and their Creators.

Under the any ces of the Pechanyappa'e College Laterary Society, Professor & B. Remenathan delivered as unteresting lecture recently at the College Hell, on 'S me Famous Characters and Hear Creatura' with Mr. S J Cawford of the Christian College, in the chair,

The lectorer began by eaving that the College Literary Societies might be supposed to be en extension of the College work. There was this difforence between the Callege and the High School work : there was greater sense of freedom ee well as greater sense of responsibility on the part of students in College work. If Literary Society work should be made to be a mere extansion of College work, that sense of freedom and that sense of responsibility would be diminished and so the Society should take care that it did not get amerged in College work. In the choice of subjects there must be occasional topics that might not be quite ecceptable to College lecturers. But all the same such topics might have to be taken up. With experience the Society must be shie to hit et e proper kind of topics and subjects. Then by occasionally invitiog outsiders the Somety had the edventage of people giving discourses to them. people who have had experience of life and people who would therefore impart into Society the lerger eir of public life. In this special case the lecturer was not so much of an ontsider and possibly also the subject was not so much an outeide subject. But he would make it as little of the College lecture as he would.

Beginnlog with the sarliest writer he would epeak of Chaucer, Chaucer was not such a difficult writer as he supposed to he. He would refer to two or three cheracters in Chencer. There is Knight, his tavoarite cherecter. He distinguished himself in the Europeso compaigns of the day, he was a model kolght, and he was supposed to be oever indulging in soy kind of valger or shasive language. The story he nerrated was the preise of Canterbury Teles and if a prize was to be awarded he was to get one. Scholer is another favourite character. The story he narrated was a tander and a pathetic one. Parson is enother famous character in Chancer and the trace of Person's character was found in Goldsmith's Vicar.

The lecturer then dwelt upon Chancer having been a man of affairs and he distinguished himself in verious capacities and that his knowledge of offeirs was visible in his writings.

Proceeding to Spancer, the lecturer said that he was a man conversant with affairs. He was Secretary to Lord Gray.

He would refer perticularly to the 5th cento of the Fairy Queen, where they had the idealised picture of this Lord Grey. He was no doubt unsuccessful in pacifying ireland and to errange the Irish affairs. The portrait was much more

individualised than Spencer's characters were generally.

Then the next writer must be Shakespears and in Shakespeare he woold mention Henry V. He won't repeat what he might have been eaying in the College clasees, hot be would only refer to the business capacity of Shakespeare and his conversent with life, and also the fact that Henry was pre-emineutly a man of ection, and a man of resolute will. Proceeding next to Milton, the lecturer said, he would emphasies some points, is, he was the Latin Secretary to Cromwell, he was one who took active interest in the shairs of the Commonwealth and it was this Milton who was the enthor of Paradise Lost,

There was not very much to say in this connection with regard to Setan and Adem and though even here they might edopt the French critice' . view, that Satan and his follow devils represented a Perliementary opposition and Adam was perhaps the Milton bimeelf idealised But the work of Milton, that would cell special notice is Sompson Agonistes, which might be supposed to be en idealised kind of Milton's life.

The eimiterities between Milton and Sempson were many and striking. Both lived dedicated lives and both fell on evil days letterly and that ansiered very much for the cousee they worked for, and ultimately these couses triumphed and they showed themselves God's chosen instruments for the well-heing of thet country. Perhaps the minor writers of the times would also serve se en illastration. Cromwell wer a men of eimplicity and his devotion to duty deserved special mention; he was randy and willing to obey law.

The lecturer theo referred to Wordsworth and perticularly to his poems on the Happy Warrior and then he dwelt on the trace of Nelson's cheracter that Wordsworth particularly admired. There was his devotion to knowledge, there was his willingness to learn from the painful experience of life and to convert such painful experiences into alements of moral growth. There was the eimplicity of Nelson's cheracter, his devotion to doty. Then the next writer was Tennyson and Tennyson had the ideal of Eoglishmen.

Our Economic Problem in India.

Mr. S. K. Neir of Travencore delivered en eloquent lecture in the American College Hell. Madore, on the 2od inst. on "Cor Economic Problem in India," with Mr. W. M. Zamhro, Principal of the American College, to the chair. A feir gathering of gentlemen end

atudenta was present. Mr. Neir in the course of his eddress said that there wee no anbicct in India at the precent time more important than the question of 'ppr economic problem' The three fundamental thioge for the improve ment of the commonic condition of a country were land, labour and capital. Indis had enough land and chesp lebonr. There was also sufficient cepitel in Iodia provided it could be brought ebout in a co operative form. The colessal wealth of the netions of Germany, United States of America and Japan was entirely don to the co operation of the people Indians required that spirit of cooperation which would enable them to ntilies the capital The heat way of colving the economic problem was the heat wey of improving the land which meant the improvement of agriculture. The Indian soil was much exhausted and it should be enriched by the application of anitable manures After giving the advantages and ntil ity of the human and cattle manger, he said that alight alteration in the implements of agriculture was necessary for the improvement of agricolture and pointed out the importance of the chimar plough which had been lately introduced. In the matter of irrigation he said that new irriga tion pumps and oil angines might be introduced at the places where scarcity of water was keeply telt. They should also pey particular attention to the live stock which could be greatly improved by careful breading, feeding and housing To effect all these improvements, money was required and if Agricultural Credit Banks were opened in large numbers and if money was lent to the ryots at cheap toterest, he had no doubt that agriculture would greatly improve. The most important thing which if not attended to the economic problem could out he solved, was that the educated young man of the country should train themselves in the art of agriculture and take to themselves agriculture as an honourable occupation in life. The lecturer then apoku upon the undustries allied to agriculture such as Horncolture, Poultry farming He said that India coold not be a manufacturing country for a long time to come and hence more and more progress in agricolture would be more and more improvement in the economic condition of the country. He pert dwelt prop the waaving industry, angar industry and cottegs industries anoh as preservation of fruits, salting vegetables, bamboo work. He concluded by exhorting tha yonog men to traio themselves in the various iodustries to start factories and thne practically amprove the economic position of India.

What a School boy wants

Under the acquees of the Hund High School Laterary Society, Triplicane, the iosogoral lectors was delivered recently by Mr. J. C. Rollo, w. A., Principal of the Pachotyoppa College, on "Who a School boy wate," in the Sugarnehari Hell, Triplicane, when Dewan Behedur L. A. Givindaraghara Alvay presided

Mr J C Rollo delivered a very interesting lecture for about an hour. He soud that avery school boy had an instroct for creating. That was the instinct of on ortist in env field-the poet, the musician end so on Every ertist had a desira to make and leave something definite behind him Even so with a child who tried to create a building with his bricks The imaginetion of the shild was working in the way of doing something himself A good deel of aspi ration and restlessness of hoys was due to the r faculty for creation. How to nee that latent faculty for ereation? They abould try to create for themselves overything that we send to them It was not aufficient if they had the things said and done in their intellectual tablet They should make every moral and precept their nwn by acting it So much for oreating things that thay were told.

Nest they must exact themselver. No one clear on condit was satisfued to that Man could almost condit was striking of humself. Self development and self creation was possible in the case of any human basing. The mera acquaition of facts was quite scales noises to defect a particular action. Geography was a definitely nueful neutrinoises of the cately. There was nothing superior to flattory an intellectual treasure, because they had human patients in the careers of great men which would open the condition of the career of great men which would opacity of purifying souls and had the wisdom cripage effect hope their starts.

Then came self crestion in moral and emotional scass. Whatever they had a saic to perform they should kindle themselves and reports in it. Seech should kindle themselves and reports in it. Seech should keep and self relaced. Hardly any off them would get an employment to a ster who would get an employment to a ster who would be congenial to him. It was so with any profession is in the Lasyyee profession was a noble profession. It afforded them may no opportunity for sympathy and help. But sometimes it ways to work they would have to spend alsepted sometimes in which there was necessity tog elp a case in a certain time and when there was the mest horrhile compelsion to do the work, there

was an absolutely intellectual agony. A naccessful lawyer had to work abomisably hard, too hard for a man. It was so with other preference agaily colle. He would some and y lecture to them on the sporting spirit which was its after-feeling of the year er trained, quicked and a nilphened. The Indian kept were ready to respond to the teacher whum thay liked. Their sympathy won not very quickly to any positio expression of hope or of resolution. They were ready for position of the property of the property of the position of the property of

Muslim Education in the Punjab.

His Honour the Lieutenent Coveroor of the Panjab, in laying the foundation-stone of the Meynerd Islamia Hotel, Agnew Hisla and Reconst Labrary at Rewalpindi on 2nd August, made an interesting expect in the course of which he said:

In your address the history of higher Mahamedes adentifies her her briffly described. And if he here rightly pounds on that the devaluement of Westers declation among the Mahameda community is doe mainly to the effort of the greet Sir Synd Ahmed. No people at a critical time of their history even had a wiser leader than the Mahamedae commonity hed in Sir Synd and in Government even had a schooler or more treated advises.

I am, therefore, particularly glad of your assurance that you regard the progress of tha netional interest of your cummunity se inseparably linked with the permanence of British rule. That is the ideal which Sir Syed Isid down and I am glad to sea that the community is still purening his high ideals not only in politice end in religium, but also in education. Gentlemen, it bas heen aptly pointed out to day that Sir Syed e plant has horne fruit indeed and good fruit, but the produce is still insufficient for the growing needs and the growing demends of your community. Hence that Mahomedan community of Rawalpindi which, though numerically great, is not richly andowed with worthy goods, has come for and in ask tha assistance and the co-uperation o. Government. That assistance I can assure you, will be readily forthcoming. The policy of Government in thesa matters is a policy of equal opportunities to all the communities who are the ambjects of Government. It is not the policy of Government to favour one community at the expense of another. I am sure your community

does not desire any special favours at the expense of others, but you desire and you are entitled to receive consideration according to your circumstances.

The attitude of Government towards the varione communities is rather like the treetment which a wise father extends tu his children. A father may have many sons. One of them may be focused and well developed, quick at his books and may therefore require no special treatment and be able to look after himself. Another son may be younger or may have started his education leta or may be a little slow at his books. The wisa father looking to the interests of both of them asys that the latter requires a little special assistance. Therefore he will arrange for a tutor to give him teaching not of school hours and to bely blm over his difficulties so that he may in time catch ap his elder brother. That is cot s policy of favouritiem. It les policy of wise diserimination based on the respective needs of the different members of the same femily. I do not think eny one of you will dispute the description of the various communities in India being roombers of one and the same family of which Querrement is the head. Government le, therefore, quite ready to co-operate with the leaders of your community in placing your adacatical institutions on a counder and better besis. T. policy has been very clearly anunciated in the recent circular to which you have referred the Magna Charts of Mahamadan education. that circolar the objects and sime of Governo have been vary clearly defined and the responsible ities of the Mahomedan community have all heen very clearly stated. It is for you to ris to those responsibilities, and if you du so, you mey rest seenred that Government will perform its share. I have the circular hefore me and among the definita objects which Government has put forward, the first is the improvement of the axisting institutions for Mahomedans i.e., Islamis Collage at Labure and of the Islamia High Schools. Another object put forward is the maintenance of hostels for Mahomedens ander private management with religious teach ing. Well, gentlemen, this institution will fulfill, I am glad to eny, both these objects. It sime at an improvement of the existing Islamia school, eed, et the same time, it provides for the maintenance of a hestel for Mahomedans under private management associated with religious teaching as wall. It is therefore a great pleasure to the Punjab Government to promise a donation of Re 29,000 towards the building fund an condition that a sum equal to helf of the Rs. 14,000 will he provided by the Mehomeden community That condition, I understand, bes not yet been folfilled but I trust that the generosity and the public spirit of the leading Mehomedars meny of whom I see bare today, will very speedily supply the deficiency and that you will coon be shie to come forward and say that "we have provided our Re 14000 we shell he very glad of the Re 28,000 placed at our disputal" If your community is able to raise a still larger com than Rs 14 000 I think I can seenre you that Government will within ressonable limits elso increase its donation. The policy of Government in these matters, I need not essure you, is not one of doles, it is one of as sistance Government will supplement the efforte of local associations and communities, but It depends on each hody to show that it has made due efforts and that its members have done what is in their nower. They can then come forward

and ask Government to supplement their action In your address you have suggested a method hy which funds for the development of Misburneden education mucht escily be scopred, viz, that a special cess be raised from the Mabo meden members of the community who pay land revenue in addition to the land revenue. the proceeds of this cess being devoted to The suggestion is Ms bomeds u education worthy of consideration and when put forward will receive it Probably the unly way in which the proposal could be entertained would be for the District Board to represent that the existing cees which is still below the limit which the District Board could levy for public purposes should he ressed to some point within that limit, and that the additional amount so realised be distributed between the different communities, t e, Hindu and Sikh landowners as wall as the Mabamedane, for the benefit of their respective aducational Institutions. Put in that way with out committing myself to any promiss, I ren say that the proposal will receive due consider tion from Government

I have explained to you hristly the policy of Government in regard to Mahamedan education. At the present moment is excusal is stong on the subject from the Ponjab Government. It also for the co-operation of the testing on the subject from the Ponjab Government is also for the co-operation of the testing opinion as to the heat method of realising the policy which Government has eow land down I trust that the time that letter resolve you, Government will be put in porsession of many valuabile opinions which will enable at the co-operate with the community in removing the testing of the property of th

communities in the Province. The stellstics of Mahamedan aducation in the Rawalpind: Division which here been gooted to the eddress just read out are very significant, and I am sfraid, are rather depressing But now that the community has awakened to a cenes of its ubligations, and that Government is willing to assist the commanuty in developing its educational institutions. I trust that hefore many years this reproach will be removed. The present institution is one of the indications of that co operation, and I simply give the promoters of this undertaking a word of friendly advice, that is that just at first you should out attempt to do too much, and that you should cut your coat according to your measure by keeping your scheme within the re conrect at your disposal.

(FOREIGN)

Vernacular Universities

Sir Theodore Morison a member of the Council of India and of the Poblic Services Commission, delivered a remarkable address on July 8 at India House in apport of the proposition that the vergeculars should be the medium of metroction to the Indian universities, writes the Loudon correspondent of the Manchester Guardian. A large endience of Indian students assembled, egyeral of whom to the subsequent discussion made appreciative references to the lecturer a notable work se Principal of the Mahomedan College of Aligarh Sir Theodore declared that we must work towards the creation of universities in ladia importing their knowledge in the veruscular English edocation had been an enormone boon to India, and Western ideas had produced a beneficent direction of Indian thought. But this revolution might bave been more gameral and medal if ideas had been spread in the vernaculars. The main disadventage of the eystem of instruction in English wee that it kept the ledian vernsculars poorer and nuenriched by the threght and learning of Indiane who are making large contributions to the thought of the world The value of their work did not pass to the vernacular-speaking peoples. Then the stodent was hampered by the task of reproducing his ideas afresh after learning them in English. and words have a geniue of their own which fraquently cannot be recovered in another tongue. The continuants of the present bilingual system se India was nodesirable, and we must seek in the eniversities to enrich, enlarge, and expand the verosculars no that they may become an adequate medium for the expression of Indian thought and emotion

Students in Germany.

In the year 1893, the number of students attending the Universities of Germany amounted, all told, to 27,000. Ten years later the number had increased to 35,000, but shortly afterwards an enormous addition took place, so that in the course of a further decade the number of Germen students attending the various assta of learning in the Fatherland bad nearly doubled steelf. In the winter term 1912 to 1913, there were \$8,925 students matriculated at the twenty-one German Universities, and if we add to this number 3,750 men and 1,722 weman who were not matriculated, but who were stiending the lectures as gueste, then we have a grend total of 64,337 persons attending the various German Universities during the term in question. But the summer term of 1913, witnessed a still greater increase in numbers, the number of regular students amounting to 60,350, and the cutire number of ledies and gentlemen attending the conrece, including those who had not regularly matriculated, amountad to 64.462. This great increase in the number of German students may, writes a Berlin correspondent to a contemporary, be attributed to verinus causes. In the first place, the increase in the population of Germany has naturally erested a vast number of positions to be filled : more sebcolmasters, judges and barristers are oslied for, and there is also e greater demend for doctors, chemists, etc. Further mure, the vastly improved finencial position of the entire country and the higher existing standard of culture have caused great numbers uf the middle, and even of the lower classes to strive for the adventages of a University admention. There are also two paper factors which must not be furgotten; the increasing number of foreigners attending German Universities, and the fact that women students are now admitted. In the year 1872, tha German Universities were visited by about 800 foreigners; at the present mamment, the number of these non-German students must amount to some 5,000. With regard to Isdy students, there were shout 1,103 of them attending Corman Universities in the year 1908, but the winter term 1912 to 1913 could beent of 3,213. The number of students is still atendity increasing, but not with such leaps and buunds as during the period already mentioned,

Law Teaching for the Citizen.

The retiring President (Sir Juhn Macdonell, C.B.,) of the Society of Public Teachers of Law, delivered an address, at the annual meeting of

the Society held on July 4, at the London School of Economics.

Sir Juhn Macdonell asked his hearers to consider two questions. Whum were they to teach, and what were they to teach? The public temphers of the law did not, so it seemed to him, always put their claim sufficiently high, They had ton much shaudoned a large region to others, who if not treapsesers, bed only a here possessory tatle -certainly had nu prescriptive rights. The average citizen knew nothing except what he picked up from miscellaneous reading of law or its history; nothing of the principles discernible in all systems of law; nothing of its chief roles which embodied well tried athical truths; nothing of that sense of continuity to be imported by a stedy of law as by nothing also. What wunder that there was often a kind of estrangement or elicustion between the bulk of men and the edministration of law. The study of law was unce deemed in this country an essential part of a liberal education. Locks, who for more then a century dominated opinion as in education, aigned at great length for this "It will be strenge to suppose that en English gentlemen should be ignorant of the law of his country What Locks approsed to be "strange" is today fact. Yet could any system of liberal education for the intelligent otizen be complete which left out low? The President indiested come of the many classes other than lawyers which might profit by such instruction; for exemple, future public officials and administrators, legislators some men of letters, and the large and powerful, if indefinite, clear, journelists, un doubt e vagua tarm but sometimes applied by those who could not write to those who could as if a term of opprobrings.

There was one obstacle, the prevalence of something like distruct of jurisprodence baving any thing to teach of real velue to the ordinary citizen, which was the burden of so much litigation. Professor Radbrush had collected examples of the bard engings by men of aminence se to the worthlesenese of jurisprudance. description of the Curpus Juris es the Devil Bible was but une example of many. Even the anccessful advocate or solicitor rarely thoroughly believed in the value of scientifin teaching of law; The eloquant speeches of Lord Westbury and Salborus and Lord Russell in preiss of legal education must have prompted in many minds the question, "Did you rise to professional emineuca by the means which you recommend to others!" To teach the ordinary cilizen you must estisfy his thirst for reality-what a German jurist called Wirkichestshunger-pot life into what often seemed to so many so much dead matter The public teachers of law might one dey have to combat the sodeavoor to napel at wholly from the correculum of liberal sindies They would pass through a crims and resist the ecemies with more eccess if they beightened their claims and solarged the bounds of their This was not a question of the knowledge to be got by practicing in Conrt The great teachers or expositors of law were not experienced practitioners but those who combined the accentificepirit with discipline and imagination work log in an etmosphere of knowledge, of whom there were three appremeatemples—Mooteaquien, Blackstons, and Iharron If they were to convioce the ordinary citizen that they had a mes sage well worth hetaning to-if in the straggle, becoming ever keaner, of competing sindice theirs was to hold its own "Back to Blackstone," with his culture, his wide outlook, his good sense and his grip on the facts of life might be sound ndvice.

Moslem Education

In natroducing the Indian Budget in the House of Commons Mr Montagu referred to bis visit to lodie and his speech concerning education in India is interesting

They realize that thay have too long neglected the educational opportunities Government has offered them The fact that some most amuse to Musselmane occupy high places in India must convince them that there is no discrimination against bless.

All aducated Indusa meet recognize that is would be desastreast if trisiones of pepulation during to religious and bisforcial consist, ware to coincide permanently with a difference of tetallectual larel, and if the important Messalman community were allowed to remain outside the infinence of the forces modified that fails of the feteres.

the force moelding the Ledu of the fatere.

We may say that erracgements which the Local
Government can make for the ancouragement of
Messalman pupils in achelarships and epeciat
courses will be welcomed by the best simments in

DACCA UNIVERSITY SCHEME

Mr Montagu referred te the proposed new Uotversity at Daces and the opening of a most important chapter in the higher education of Iodia, with a residential system which Govern ment contemplated as a modal for New Univer

sates in India. He paid a tribute to the private enterprise to teaching in India, especially the aploudid work of Missionaries. He referred to the fisice School at Stringers, the Anglo Vedio Arys Samay Collings of Missionaries. He offers and Cambridgo Heatel at Allebahad St. Xarier's Collings in Benbay, and the eriminal tribus. He emphasized the need for present Indiaence to and the medicancy of text hook cramming.

He siloded to the edecation Resolution and and "Well we have contemplated the Great Centrel Research leatitete to India for equipping fidnes reduceds for original work to orientel philosophy, and here agreat Oriental School in London then was may lope that we here dene far behold France and Germany in our interest for Assitic colling.

THE UNIVERSITIES BOMBAY UNIVERSITY

The proposals of the Syndicate of the Univer esty of Bombay in regard to the ntilieation of the recorning and non recorning grants given by the Government of ledia here now been published The Syndicate first referred the matter to a Committee which recommended the following mesences -{1} Courses of lectures by emicent Professors of British Universities, who would viest Iodia for this perpose . (2) leter Collegiate lectures to be dalivared in the mein by members of the staffs of the Colleges of the Presidency and to be paid for by the University, the appointments being temporary, (3) University Professors holding permanent appointments Committee, hewayer, recommended that puch permanent appointments should be postponed till the Expert Adviser had made his report. The proposals of the Committee were accepted by the Syndicate, approved by the Secate on September 30th, 1912, and aubmitted to Government The Government of India approved provisionally this triple scheme, but they suggested that the inter collegiata lecterers abould hold per menent appointments end they reversed the amounts allotted by the Sanata to the lecturers from Loropo and India respectively. The Syndicate have now reconsidered the scheme and Lava laid down certain principles by which they should be guided. They consider that for the promotion of post graduate study three classes of teachers are required-First come Professors of distinction holding

other communities

permenent appointments, who would extry out priginal research, train atudents and lecture to them and give an indication of their work to the public. They shall have to be highly paid and be given ample leasure, and they will be expert ndvisers of the University in all matters connected with their subjects. Secondly, there will be Resders to deliver courses of lectures on thu anacial branches of learning in which they are interested with a view to the assistance of students entering upon research work or conducting apecial studies. These lecturers would be selected from distinguished scholars in Europe. They would be requested, in selecting the ambject of their lectures, to have regard to the nature of the post-B.A. Course and to publish beforebend a synopsis of the Course. They would be expected to deliver not Iras than 24 lectores and elso to undertake some direct appervision of students' work in the period during which the Course iested. Such supervision might meen a personal interview nace a week with students and advice as to their methods of study. Only genuine post-graduate etudents abould have a claim to ench belp from the Readers. Lastly, there will be lecturers, appointed by the Syndicate who will give eystemetic instruction to M.A. students and appervise their work. These lecturers would be generally though out as a rule, drawn from College Professore, The Syndicate, however, propose to confice themselves in the next year to the second and third parts of the scheme ontlined above, in view of the limited funds at their disposal. The time in which these lectorers will be delivered will be the monerous term of 1914 and the place will be either Bumbay or Poons according to the number of students that come within the scheme. In regard to the appointment of Readers, the Syndicate, it is proposed, will apply to such bodies as the Universities Burets of the British Empire and advertise the places in London papers, and after phoseing the persons, request the India Office to engage them. Each Reader is proposed to be given Rs. 4,000 for a course of lectures, all the expenses to be horns by him. Each lecturer will get, for one course of not less than 24 lectures, e sum of Rs 400, which may he supplemented by free paid by atodents. The subjects chosen by thu Syndicate are Oriental classical languages, prefarance being given to Sanskrit and Persian, general modern history and Indian history. sociology and economics and philosophy. Three gentlemen distinguished for scholarship will be invited from Europe to give as Readers of this University, courses of lectures respectively. (i) in an Oriental Language and Literature (pre-

ferably Sanskrit); (ii) Modern (inclodin. Indian) History; (iii) Sociology (including Economics). The courses will, in each case, consist of not less than 24 lectures. The University will provide three distinct coorses of lectures in pach of the following five branches of the M.A. Course; (i) Oriental Classical Language, Sanskrit; (ii) Oriental Classical Language, Persian; (iii) History; (iv) Econum-ics; (v) Philosophy. Those enbjects are the as me as those proposed for the Readers, with the addition of Philosophy, an that M.A. atudents who attend the Courses of both Readers and Lecturers will get from thren to seven Courses directly on or connected with the branch they have selected for study : in addition they will have advice and direction from as many teachers of ability.

University Teaching.

Extent Aprisan For Bossin, uniA meeting of the Sensier of the Bondyn state
westly was held recently, the Hen. Sir. As early
Heaton, the Visc-Chanceller, presider, was the
appointment of the Chanceller, presider, was the
appointment of the Chalcanship of Lord
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Expert advise, and recently Lord Sydaham was
presented to the Chalcanship of Sir
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Prioripal A. L. Garcenton, moded, as recommended by the Spedicates That he Sential methods the Spedicates That he Sential approves of the appointment of Six Alfred Hopkingon, t.C.M., https://document.org/documents/figures/

CALCUTTA UNIVERSITY

Dr. Rash Babari Ghose has made a magnificed gift of Rupees 10 laths to the Calcutte University for exholarships and atmostatiships in connection with the University College of Science. All praise to Dr. Chose.

Chair of Economics.

The University of Calcatta has offered tha Minto Chair of Economies to Mr. C. Fiedley Shirras, a native of Aberdeen. He is the eldast son of Mr G F. Shirras, Aberdeen, and was sdocated at Gordon's College, Aberdeen Um versity, and London At Aberdeen University, be was first prizeman in political science, second prizeman in the graduation class of political economy, and first prizemen in the bononra political economy class He was senior atudent in economica at Wrene, London, and at the Indian and Colonial Civil Service Examination did well in that depertment In October, 1908, for original work in labour economice ha was elected a Fellow of the Royal Economic Socialy In 1909 he was appointed Professor of Economics at Decca College while a year later he was appointed to the Government of India Prices Inquiry Committee, and placed an special duty in the Finence Department Mr Shirras in at present stacked by the Government of India to the Board of Trade, Whitehall

ALLAHABAD UNIVERSITY.

Applications from Private Candidates
The Registur has eddressed the following
communication to the Director of Public In
struction, Principals of a filiated Colleges, Hend
masters of recognised echools, and Inspectors of
Schools.—

As there assems to be some misapprehension in regard to the office Circolars Nos. 9 and 13 of 1911, the undersigned have the honour to reterate the directions communicated in the aforesed Circolars, and to sek that they may be strictly adhered to.

- 2 The Meetings of the byndicate and the Senete in the month of Jointry Deng no longer mandstory, all applications for permission to appear at a exemination of the than the Matriculation examination choid reach this which are not received in the office by the and of October will not be coundered. All intending applicants should be so infigure at
- 3. Applications from candidates arking for permeseon to appear at the Matricalistic axamination as private candidates, abould reach to University office not lass than air months before the date fixed for the commencement of the next Matricalistic examination. All applications that are not received on or before this date, cannot be entertained.
- 4 It has been ruled by the Syndicate that candidates for the M.A. Final (not Province), who have studied at a College for tun years and failed should be permitted to appear at Interexaminations for the degree of M.A. without being required to attend further lectures, pro-

whel that the Principal of their College secon mands their application. The same principle about the applies to persons who have been allowed to applies to persons who have been allowed to applies a Private candidates for the M.A. Final as Tranhers. This, however, due no exempt such would be pricise candidates, see, candidates, who would appear either as extinuous, for the gree of its beants under section 19 of the ladian (histories et al. 19).

PUNJAB UNIVERSITY

Hon Mr Shadial Re-elected The Hon ble Mr Shadial has been re elected to the Council by the members of the Senate and Honorary Fellows of the Ponjab University.

CAMBRIDGE UNIVERSITY.

The Acton Library

The establishment of the Acton Library at the west and of Scott s boilding in the Cam bridge University Library has been completed at a cost of nearly £9 000. The library was offered to the University and accepted by them in 1902 by Mr John Morley (now Viscount Morley) to whom it had been bequeathed by Lord Acton, formerly Region Professor of Modern History in the University In the letter to which the offer was made. Mr Morley described the library as out one of those noble and miscellaneous accumulations that have been gathered by the changes of time and taste in colleges and other places of old foundation, but collected by Lord Acton to be the material for a bistory of liberty, the emancipation of conscience from power, and the gradual anbatitution of freedom for force in the government of men' The Acton Labrary contains some sixty or seventy thousand volumes of books thisfly historical, of which the muio body is understood to have heen acquired by the lata Lord Acton between the years 1852 and 1884. The transfer of the library to Cambridge was no light matter, as the books weighed no lass than 400 tone mess of literature has been arranged and catalogued, a special staff having been employed for the purpose Matel framed cases were apecially designed and made for the accommodation of the danks The Labrery Committee have mened a report putting on record how the mammoth work was undartaken and accomplished and they are now naking for a sum of about £1,750 to enable tham to prepare and publish a esparate catalogue Not till this owed is met they declare, will the bistory of the splendid gift of the Acton Library have found ats bittop consummation?

TECHNICAL EDUCATION.

TYPEWRITER TOPICS,
REMINGTON NOTES

In the publishing of this issue the Remington

Typewriter Co, heven gotten out a most excellent number. The cover is a Fourth of July one, showing the American Eagle and the Liberty

Bell and thu great Remington nest.

This usuu wa find is very beloful and interest-

and used we host way delipse too inderesting the control of the control of the control of the certified "The Google of Work," and sho to be analyse at least year's Enemipton employment department figures. An excele besided the "Wonder Cuy" and topped by a wanderful picture of the Pennen I'scife Exposition is excited the control of the state of the control control of the state of the state of the control control of the state of the state of the state of the control of the state of the state of the state of the control of the state of the state of the state of the control of the state of the state of the state of the bases of the Early Days."

THE VECTOR TYPEWRITES PLANT IN NEW YORK.

The besement conteins the new power plant, which generates electricity for the use of power as well as light; the equipment is of the very latest end most modern make, the power being

trausmitted to motors on each floor.

The street floor is not yet squipped, but the second floor is equipped with the latest and most most motor milling and drilling machines

nbtsinable at the present time,

The third floor, where the offices were previously lossed, is crowded full of punch present that are everlestingly heap punching out the parts that are later to be assembled.

The fourth floor is devoted entirely to the polishing, pleting and a sometic screw machines. About two-thirds of this floor is covered by the most modern and up-to-dein screw machines.

The fifth floor is depoted to the offices, eshipping department and stock room. In the stack troom, especially, are meny 'modern but a simple devices for keeping stock in order and for impecting earne, which construces us, boyond a doubt, of the great which construces us, boyond a doubt, of the great which construces us, boyond a doubt, of the great produce before longuage tikes of the disabled produce before longuage tikes of the disabled produce before longuage the second produce before longuage to the second produce before will go into the Victor typewriter.

The eight floor is enother grust revelation as on this floor thu is punning room, which is most other factories is rather as unclean place using to the character of the work which of necessity

must be done, is, nwing to the modern equipment of the Victor Company is this respect, immucenlately clean. On this floor leaks the type-making department, on which in one of the very letest models of machines for making type.

The next floor is a well equipped assembling room. Everything in it is nest and in order and the work laid out in a way that then we that great ears and thought has been put forth in the equipment of this floor for the assembling of the Victor typowriter.

TECHNOLOGICAL EDUCATION IN BENGAL.

A Committee was appointed by the Covurnment of Rengel in January 1912 to consider various queetione connected with Technological Educe. tion generally and to advise on the desirability of creating Technological Institute in Calentta. The Committee daly submitted its report which was subsequently examined by another committee of experts who have worked out a detailed scheme for the establishment of the proposed institute. In accordance with the promise made by the Government the reports of the two committees are now published for general informs tion. Copies can be obtained at the Bengel Secretarist Book Depot, Writers' Buildings, Calcutta, for appas 10 and Ropes I respectively. The Governor in Coancil will take the reports into considerstion in October 1918, and will be glad to receive before that date eny criticisms or comments which may be offered on the subject of the proposed scheme. All such communications shoeld be addressed in the Secretary to the Government of Beogel in the General Departmont.

INSTITUTE FOR CALCUTTA.

A report by the Hon. Mr. R. N. Niches, Mr. G. W. Kuchip, and Mr. W. H. Everst, Sepre-intendent of Industries and Insepector of Technical Institutes for Galestie and Insepector of Technical Institutes for Galestie has just been issued. The report organical that the Impurity Scoreties of Gavernment of India Prenn would rasks are mirable Technological Institute. It seathers et according to the Proposition of the 2,325,000.

STRANHAM COLLEGE OF COMMERCE, BONSAY.

The stell of the proposed Sydenhem College of Commerce, Bombey, will be a Principal on £900 per sunum, a Professor on £700 per annum, and two lectners on Rs, 300—500 per menesm each The Principal and Professor will has point ad in England and the fecturers will be qualified Indians. The College scheme has obtained the financial support of wealthy merchants, but the mentionic will be entirely under Government control.

Success or Indian Students

The results of the City & Carlds of London Institute Examinations, held in the Victoria Jubileo Technical Institute, Bycolla, Bombay in April 1913, have been received

Thirty two students of the Institute entered for the Cotton Spinning Examination of whom 27 or 84 o/o were successful, vis 9 in Grade 1 12 in Grade Il 2 in Final Section A, and 4 in Final Section B

Twenty three andents of the Institute setered for the Cotton Weaving Examination of whom 16 or 89 no were ancessful vs. 12 in Grade I 3 in Grade

II and I in Final Section B

Fire standards of the lunkitude who subseed for the Octon Dyeng Examination were all noncessful Teenty students of the Institute entered for the Machanest Examination when 14 or 70 hg were noncessful, via 11 un Grade 1 and 20 in Grade 17. Forty five students of the Institute entered for the Energy of the Control Engineering in 15 un Grade 17 un Grade 1

Eng nessing of whom 4 or 33 o/o were auccessful
Appeared
Telegraphy
S2 26 s.e 81 o/o
Telephany
Electric Wiremen s Work 5

These results compare very favourably with the results obtained in England the papers and conditions of Examinations being the same in both

Cases
The following rathe list of successes forwarded from the sutherities in Loudon -

CITY AND CUILDS OF LONDON INSTITUTE

DEFINITION OF TECHNOLOGY TECHNOLOGICAL EXAMINATIONS 1913

L	nst of Candudates who have passed th	e ezaminations held at Bos Institute, Dyculla	nbay Vict	oria Jubiles Te	chassal
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Vergie Uyrıl, M. Aras Viebwausth, S.

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Thorvey, K. R.

Rao, M. R. M.... Alaudiu, R. ...

Kaiwar Tirumala, R. H ... Setti K. S. Bhadra

Thosar Chiutaman, N. ...

Mehts Koouverji, M. ...

Marathe Gangadhar, H. ...

Lauger, R. N.
Pillai M. Thanu
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Exam						
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67	Vergus Oyrıl M		d _o	do Î		F
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Reviews and Potices.

OUTLINES OF VICTORIAN LITERATURE, BY HUGH WALKER AND MRS. HUGH WALRER. (CAM-BRIDGE UNIVERSITY PRESS), 3s. ref.

Nothing is more striking in the recent tendencies of literary study than the special attention paid to modern epochs. The kinship that undoubtadly exists in a very intimate form, between a reader and the literators of the period which is almost contemporaneous with him, is receiving adequata recognition. The Literature of the Victorian Era may be expected to rouse greater interest in the student of to-day, than that of any other period. Mr. and Mrs. Walker have been successful in bringing out a very meeful manual for the study of Victorian Literature. It does not profess to be anything more than the mere outlines of the subject, but we have un hesitation in saying it is enough for the average student at College, who has to specialize in that epoch. The division of authors according to the departments of literature connected with them is a great convenience, and the authors also deserve to be congratulated on the biographical Interest they have been able to introduce into their treatment of literary history.

.We may however be accused for expressing the feeling that there eeems to be an occasional want of beaution in the judgment of the authors. We are conscious of the influence exercised by German Herature and thought on amme writers of the Victorian Era, but we would certainly besitate to say that 'is may be described as the era of German

influence. Nor should we think of rashing Alexander Smith with Matthew Arnold, Edward Flitgerald, Rosetti and Arthur, Hugh Clooph, It is doubtful if John Warres and Lord da Tabby deserva treatment in a manual of this description, James Antony Proceds does not carriedly deserve special praise for the accuracy of this research War remember. Proceive Herrick that Mr. each of the Alexander Charleston in the second of the Alexander Charleston in the second of the Alexander Charleston in the second of the Alexander of the Smith Charleston of the Alexander of the Alex

The lists of works given at the end of the treatment of the writers in a new feature, and they must be of great help, for coltivating a first-hand acquaintance with them.

Brelling and Punctuation, by H. Shoosett. M. A. (University Tutorial Press). 1s.

Educationist of the older generation in this country, have often hevailed the needs of country, the country, the country of the needs of education in the pursuit of naw mathods. This small book on Spalling and Penetration is quite opportune, as it seems to draw statement on their which do not seem to be receiving adequate treatment at the present day. The treatment of the subjective of t

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HERRY IV PART I, EDITED BY A J F COLLINE, M, A. (UNITERSITY TUTORIAL PRESS) 2r

We have often had the pleasure of drawing statement to the ments of the valueme to Tatorial Shakespeare Series. They seem just the ind of editions necessary for examinational purposes, and they also eepsy the ment of stimulating universe ore in the laymen. The introduction is valuable as usual and the notes two correct and to the point, hang ample at the same time. The arrangement of the matter is clear and analytical and most therefore be easily remembered by the studiest

Belle English History Source Booke The Reformation and the Revalstance, by P. W Bewsher, B A. Internation and Me Gladstone, by R. H. Greyton (George Bell and Soas) Is not each

Indian Universities have begun to recognise the need of introducing the study of History from original courses into the curriculum of the B A degree in History The two volumes under review are admirably fitted for such a purpose, with regard to two such important periods to the History of England, as the Reformation and the Renaissance and Imperialism and Mr Gladetone Mr Bewsher's collection is particularly valuable as he has made a very discriminating ose of avail shle scorces. He has wisely indented upon Laterature, and has included for instance sources like Shelton's Why Come Ye Not to Court for Cardinal Wolsey, and More e Utopia for some eide reflections on the social and economic conditions of the period The Rutland Papers, Holmshel's Chronicles and the Paston Letters have also been availed of for informatine Mr R H Gretton seems however to go in for sources of not very great authority, and has also entirely neglected the help he may have received from the litera ture of the period dealt with by him 1876 1887 Would not Alfred Anatio, William Watson and Rudyard Kipling afford some valuable passages for an understanding of Imperialism, the Eastern Question and affairs in the Transvaal ? Should the Times be the great oracle of the period on all anbjects " It should certainly have been quite easy to mention the sources from which passages have been extracted in the contents. A mention of the authors and journals responsible for the passages would seem to he occessary in the Contents page itself. Wo hope the omission will be rectified in the next editinn

THE GOSPEL OF ST LEKE, EDITED BY ROY T.
WALKES MA AND REV J F RICHARDS.

M.A. (UNIVERSITY TUTORIAL PREES). Is 6d to be study of Daglish Leterature cannot be complete without a through acquantance with the Bible. The University Tutorial Press has beare its recognition of this invaluable principal in quite a practical manner, by the publication of this edition of the Gospel of St. Luke The fostedoction is very comprehensive, dealing with almost all sepects of Biblical scholarship. The large number of maps and illinatrations must form a real aid to the understanding of the book.

Lessons on Charleter Building, by W H
Baldwin and W Hobson (Thomas Nelson
& Sone), 1s 6d.

It is on exaggeration to say there is on subject receiving more attention at the present day in the world of Indian I docation, than the building up of the character of children in schools It has not been easy to find a very satisfactory solution to the complex problem But Messre Baldwin and Robeon deserve to be congratulated on the very acceptable manual they have produced Its merits are many and wa hope the following points will be soough to convince our readers of the soccess attained by the authors The illustrations are culled from the most varied sources, the teachings are hased on a universal basis and do not cootsin enything offensive to any particular religioo, the presentation is very simple and vivid and therefore emmently sorted to the elemen tary classes When we consider the insuperable obstacles that exist in teaching morality through religion so this country, we trust an excellent manual like this, which proceeds no an entirely non sectarian basis will command very wide oupport

THE CITIZEN AND THE STATE (INDUSTRIAL AND SOCIAL LIFE AND THE EMPIRE), BY J ST LAO STRACHRY (MACHILLAN & CO., LTD.)

The series of books in Means Miccoilla's Gizze and the Sidat have attended to be defined and the Sidat have attended to repet descring repulsion for their reducible matter and structure exposition of problems which are the highest interest to every citizen Mr. Struchey's book in quite up to the level of the other valumes in the series and no one will consider the limitarial and Social Life of the

Seipman's Frach Series: De La Terre, A La Luce, Edited by Engene Polliesier 2z. Cing Semaires en Ballon, by Jeles Verne, Edited by Engene Pullissier, 2s. Luodon: Macmillao.

Regional Geography of the World: Part II, Asia, Europe and British Isles (in Telago) 6.4s. Part III, America, Africa and Anostralis. (Telago) 10.4s. by M. Sitaram Rao, Beadmaster, Viresalings m High School, Rajabmanders.

mundry.

Social Programmes in the West, by C. R. Henderson, the Barrows Leclorer, Bumbay:
Macmillan, 9 As.

Report on Public Instruction in Mysore for 1911-12, Mysore: Govt. Press.

Composition from English Models, Book I, by Ernest J. Kenny, Is; Book II, by Ernest J. Kenny, Is. 6d. London . Arenid

Literary Selections from Newmen, by a sister of Norte Dame London Longmans. Is. 63. Father Gregory, by Percival C. Wren, London: Arnold. 3s. 6d.

Indian Educational Rotes. NADRAS.

"The Children's Day Record."—The July Vicedachiamani is a record number. It is the best children's Day Record in Tamil. Lord Hardings's bruthely as board to become an adding institution, in which we have been as the state of the conview of His Excellency's forthcomic Living, in wise of His Excellency's forthcomic Living, in which Presidency to collect together us a record number all the standing information on the subject necessary to engilete and interest the childnecessary to engilete and interest the childterest and the children and the chil

The Sourashtra Righ School Literary Society, Madera—The Inanyral meeting of the above Society for the year 1918-14 was held on the 1st Angres 1918 4-545 v. in the action president properties of the Stevenson of the Angres 1918 4-545 v. in the action president properties of the School Madera, Language Mr. A. Gernodavsja Madera, College Mr. There was being attendance of technique and sindependent of Laterary and Debatting Skrietie—There was being attendance of technique and sindependent of Laterary and Debatting Skrietie—There was being attendance of technique and sindependent of Laterary and Debatting Skrietie—There was a learning by heart. He confidenced that former and learning by heart. He confidenced that former and the College Mr. Skrietie—The predicted of gitting by plants impressed in the College Mr. The prediction of the College Mr. Skrietie—The predicted of gitting by plants impressed in the College Mr. Skrietie—The predicted of gitting by plants impressed in

passages of prose and positry abould be caltirated by young men; if they without to train themsive in the art of speaking or writing, and be quoted the ames at femment men of England, who encouraged this kind on itself, as I england, who encouraged this kind on itself, as I england, anyon the adsentages of Debuilay Societies as a training ground for public speaking. Mr. Espis Ram jurning round for public speaking. Mr. Espis Ram jurning to the control of the property of the control of the control

Teachers' Association, Mayarara—At anciing of the Teachers' Association had on the Shi
mirant ander the predictory of the Market Mayarara
property of the Teachers' Association and the Market Mayararam Range—About 200 all side—eres assambled to the Monicipal High School Hill or states
a namber of well arranged, nearly Historical Association in the second some benefit of the Market Mayararam Ranges of Schools May and practical, that the
Impressor of Schools Mayaram and the practical that the
Impressor of Schools Mayaram and the practical that the
Impressor of Schools Mayaram and the Practical Mayaram and the practical that the
Impressor of Schools Mayaram and the Mayaram and the Practical Mayaram and the Mayaram and t

I have yet a pleased duty to perform a pleasent and so egreeable duty in the absence of the Headmaster, the President of the Teachers' Association, bis tonable naturally falls on my simplers, bus liestenant, and happy and that the funding of proposing a vote of thanks to our worshy Chairman on this necession devolves on me.

Before doing so, I wish to call our Chairmon's attention to a few facts touching merelves, as he is the granding needed for interests and purmits. I see before me a large assemblage of Primer school teachers of this Range, who have come for a religious property of the Range, who have come for removed the property of the removed the property of the removed the besidence to each of daty.

I cegard them in more sense than nos, as includes and gines of that kind—both hombs, both thodes and gines of that kind—both hombs, both workers in the field of education. Their trade is brein catures. They shaps and model the feture states were sense and the first property of the progress of homestry. They can alerate or depress the

gress of animality. Any case average of the character of the coming generation of the character of the coming generation of the character of the coming generation, allows the spream of the coming generation, asilows yet subsort, and into his custody humanity entrusts the ophringing of loyal and wheel clickwar.

When a fond parent, leading by the band his request that he makes to you is. "Sir here is my darlog, the ctay of my life, pleasn eee your way to open his eres."

Such at least is believed to be the noble privilege and preparative of these humble devotees in the

temple of learning

You know very well with what esteem and honner our anciente regarded the status of a Gorn, why, the rery Vedac, our Bible cries as the top dries roice, "I how to you, mother, my first God, I how to you father, my second God, I how to you, Gurn, my third God."

Oer Tamil literature abounds in maxima such as these, 'Let my Gorn's feet protect me' that is whenever people undertake ardnous tasks or risky busices, they invoke the aid of the spirit of their

Gerns

Such was and is still beliaved to be the carred calling of a school master. You have need the picture now precented to you and now I call on you to look

at the nge that follows

Bear with me awhile and surrey the present sate of this anciently respected people. They ow go by the name of Poor schoolmaster. Note the surressons, sentences at a stell of angustiance and the surressons, sentences and sentences of the world, why, goutlemen, the ach consistent while the villeums and rescalings of the world, why, goutlemen, the achocometer, week in and week on the surrey of the surrey of

Then you seem the expression Poor rebool master is larking the icor idea of simple innoceoce and incapacity to do harm to others, add to this their poor and innoceocerative salary-many in

their poor and unremucerative salary—many un them are passing rich with H₂ 10 a month In this wicked and saccy world fifthy incre com-

mends and compels respect, it is the long pureble secondished energy of some forpeties accordished —robe mankind. Even force and heart coltrest counts for outbook. These must bow to we here as demands of the belly, because of all kinds of rebeltion, the rebellion of the belly is the worst and we one cannot find the wherewithst to apprese the according to the second of the period of the before these mughty in God of the period and are not naswer of the fact that. Fortune favours fools "as also is known to be proverbally blind.

Thus you are though their function is holy and noble, their position in his is no low that Municipal Thouse compara favourably with them insammeh as they are pad. Bs. 10 for their work from morning 6 to 8 a. y. after 8 a. they are free laces, might go about equirrel bunking in fill their atomach and basket making to find their evening today; whereas

Primary schoolmasters have to work on Rs. 10 from morn to eve seed be ever on their vigil for the surprise visits of Supervisors and Sub-Assignat Inspectors of Schools—with on the locallow them to care some extra pittance by way of private totion even during their born of well earned repose and much needed rect.

My sale of wos, geoldemen is at ac end and if I am a little bit notapoken and nowise in my other ame, it is because of the justness of my cancer, the more more than any other where the shee pinches

them You Sir, Mr Chairman, we expect you to cham pion the right cases of these poor Primary school constress of their section, we mixed to new you as a lever to open the ray of the Director of Peblic Instruction and the Government and to make them seem to the right and the open properties the province and the right and the open properties the province and the right and the open properties of the province of the results of the control of the results of the control of the results of the control of the results of

Now gentlemen, we cannot sufficiently thank our Chairman for the paneoce be has abown and the willing are he bes lent to our canno and mission. I call on you all to stop in one oborts a the right proyal beglight style, the long life and prosperity of

our worthy Iospector (Hip, hip hurrab 1),

The Presidency College -The report of Mr W Middlemest, Acting Principal, Presidency College, Madras on the working of the college during 1912-13 discloses that the college was atrengthened by the creation of two new appointments in the schordinate sorvice doring the year as Assistant Professors of Physics and Sacakrit The aumbers of students on the rolls in the first and second terms were 600 and 582 respectively compered with 588 and 577 in the previous year There were as many as 38 M A students in the college The total of 600 stodents which was reached during the year was it is believed, the highest figore recorded for this college . There were 27 lady atudente The distribution of studente according to caste orrace chows that Epropeaus and Eprasiana were 27, Jedian Obristians (non-Panchamas) 13, Mobsmenadane 12, Brebmacs 446 acd non-Brahmen Hudos St. Another statement shows that students belonging to the richer classes were 46 in number, to the middle classes 502 and to the poorer classes 36 Ont of the total number of 562 stadents whose parents or goardiacs were officials were 307 to nomber Tanjore contributed as many as 101 students to the college, a s. a little less than one fifth of the total atrength of the souththing. The number of atudents taking on a lacguage other than Eeglish has increased from 2 to 7 but the study of languages other than English is reported to be sill nopopelar The college has again had a large amonot of anccess mevery subject in the letermediate B A degree and M A degree examinations, to which it presented candidates. In the degree examination airteen etndents of the college were placed in the first class. and in Methamanics Physics, Chemistry, Zoology, Mental and Moral Science and Bistory, the college students were first in the first class and two of them secured the rary distinction of a triple first. Seventeen University prizes were swarded to students of thu college The number of applications for admission on the strength of secondary school leaving certificates was again in eacess of the number of vecaucies, out of 566 candidates for admission only 97 were admitted It is said that the secondary school-leaving certificates of a large number of the applicants showed that they were not fit for a University course. While the receipts from fees and miscellaneous items amounted to Ra 57,718, the charges amounted to Rs. 2,12,512 The games of bockey, footbelt, cricket, lawn tennis and hadminton wern played during the year One handred and sixty-two students were living in the Victorie Hostel and the remaining 420 either with pacents or guardians or in lodgings. The lodgings were inspected during the year by members of the college stall deputed for the purpose, and in unly one or two cases were found possitable Principal has included in his report extracte from the reports of the professors on the working of these respective departments. The Director of Public Instenction on reviewing the Principal's report has come to the conclusion that the working of the college during the year and the results of the verious University examinations wern very estimfactory.

College of Engineering .- The Director of Public Instruction has submitted to Government proposals of the Principal, College of Engineering, for the distribution of marks consequent un the rearrange. ment of the College classee, and slee the modifies. tions processry to bring the syllabores up-to-date. thin uccessive or units use a products optionates. The proposals here been apported by the Board of Visitors, and it is stated that the proportion of marks awarded in the College assumation for practical work is smaller, in the roles as now proposed to be revered, then formerly. The Director adds that the proposed modifications in the syllabuses involve no radical changes. The Government have approved the modifications and the revised distribution of marks proposed by the Director of Public Instruction,

The North Malabar Teachers' Association -The first meeting of the North Malabar Teachers' Association was held in the Brennen College Hall with Res. C. A. Schener in the chair, Mr. Krisbuen Nelr. the College Princips!, has been appointed President, Mr. K. K. Subramanie Iyer, Head Master, Missaon High School as Vice-Prendent and G. Eshutachan as Secretary and Treasurer. The Imprendent Globols and Mr. Scheuer, here appointed Patrons The Managing Committee committee of Mosers Meller, Valdianetha Iyer, M. Kenudioya and some others This Association will be affiliated, to the Sonth Iodia Teachers' Union We wish the Association every success and hope similar Associations will series and bone similar the Associations will series and some similar than the series and se

South Malabar All teachers who are in a position to understand the proceedings can become membees.

The B. P. G. College, Trichinopoly .- The E P G. Coolege secured the services of enother clergy. men to the steff of Professors of the College in the Rev. W. E. McFarlene, M.A., H.D. Mr. McFarlana comes from Dubin University.

Kumbaconum College -From the report of Mr. , A. Yetes, Principal, on the working of the Kombaconnus College during 1912-13, we gather that the average number on the rolls and the average daily ettendance were 179 and 162 respectively, 169 studente were Brebmens, 10 were mm Brebmen ce-te Hindne, 1 wee an Indian Christian and I wee a Muhammadan The great majority of the audenie. ea name!, belonged to the Tanjore district. Distri-buted according to wealth, 159 students were of the middle class, and 7 and 5 were of sicher and poorer classes respectively. These were some improvements carried unt in respect of scoommodation and aquapment. Although the constenction of quarters for the Peincipal has been abardoned, the land acquired for this purpose has been subtracted to be reserved as an adultonal recreation ground for the college or as a site for possible fature extensions. The twicking action of the college of the col The tutorial system continued to work well and the discipline of the college is reported to have been eatinfactory. 85 candidates were examined for the Intermediate resmination in Arts, of whom Successfully a summerication in Area, or approximately 20 passed with his in the first class. Eleven acadeau gained distinction in English. For the R. A. degree assumed to the English language division, of whom 12 passed with text in the second element in the second element of the second division 10 cut of 10 seased in Sarakitt and 7 or 11 to 12 passed with the second element of the second element element elements. of It in Tamil. After two years of inedequals provision for games the college is in a fair way to be equipped with as great a variety of games and as good a ground so eny college in Southern India-It is reported that there is emple enthusiasm among the students and next year the Committee hope to organize this enthusiasm in a permanent form by grouping atudents and bolding inter groop competer tions. Mr. Tates is very enthussed in in regard to the value of games, for he says in his report, that du not think there is soything in College life that lends itself more to the development of character, or brings the staff and the students more together than games." The net expenditure of the College, deducting receipts, smounted to Rs 35,358-192, and the net cost per etudent was Re. 197 against Rs. 175 in the previous year. The work done by the College Literary Society during the year was on the whole estimated by The Principal is inclined to think that the Cullege work showed vitality and that the year was one of progress all round. Director of Public Instruction in his review of the report congratulates the Principal and his staff on the continued efficiency displayed in the working of

Government Grant -The Government here senetioned a grant of Re 3927 towards the cost of amprovement to the buildings of the Cenera High School, Mangalore, Government hase delegated to (I) the Superintendents; School of Arts and Reformatory School, Chinglepot, the power to make appointments up to Rs 30 per mensem and to inflict punishment on persons so appointed; (2) to the Superintendent of Industriel Education power to concuon fornitore greats to sudustrial achools up to a limit of Re 50 and building grants up to Re 100, and (3) to the above said three Superintendents the power to grant temporary exemption from examination rules. general and special, and to employ unquelshed condidates for a period not exceeding three months when the sacctioned pay of the appointment does not exceed Rr. 30 per mensom Govrenment have senctioned out of the Imperial grant of Rs. 23 lakes for Education provided in the Budget, an additional allotment of Re 22 200 for payment of grants to no encluding an area pering on la eregament account of supends to students under training and have passed an order that a sum sufficient to meet this excess expenditure in 1914-15 should be reserved not of the non recurring portion of the Imperial grant of Rs 23 lakte

Study of Vernaculare - Under the suspices of the Town Students Literary Union, on open debate was held in the American Righ School Hell with Mr K. R. Venksterama Iger, na, a L, in the chair, the subject bung, " Is is necessary to introduce the lamil Language as a compulsory enbiect to the curriculum of the Intermediate and B.A classee?" There was a very large gathering of gentlemen. besides a good contingent of students present Mr T. O. Breamvass lyengar, na, s L. the Serretary of the Tam'l Sangam, opened the debate and presented a strong case to favour of the re-introduction of the Terril Language as a compulsory subject. Mr K Chioneswame Iger, & a., Lecturer to Logi ab to the Medura College, opposed at no the ground that the present regulations should be given a fair steal before they were condemned. Mr. Ganapathi lyev supported the opener and Mr. Rajagopala lyer spoke in farcur of the present regulations A cultings student also spoke to emprort al the view

of the opposer.

Mr A Rajaram lyer, Proceival of the Medors

Mr A Rajaram lyer, Proceival of the Medors

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and certify fore, and by about them to give the rew

regulations a fair trial before they sat in judgment upon their effect

The Hon Mr K Rame Iyenger said that when he came to the miceting his had not intended to offer any remarks on the question entirer way. Now that an educationist of Mr Rejaram Tyer's experience had spoken decidedly in favour of the present exetem be thought it proper to mention one or two sepects of the question. He would not give any opicion The point at issue was whether vernacitfore had been buried-that was the expression need. He should respectfully sak whether the best interests of the country had been served by the Senate The real munt at issue was whether the University bas mentied at a existence and whether it has done its duty One of the sprekers mentioned that a nationel interstore should be built. And be asked with some sebemence "It's national literature is to be boilt, are we to have a small percentage of those that study the varnaculers? Have the present regulations the tendency to bring in the largest number for the aprent of the vernaculars?"

Mr T S Kriebne Rau, B a L T, spoke in support of Mr Bee Rau 1922 s views and Mr Madda Rausings i ver a spoke in the Mr T C. Securitys tweeger beieff or plied and with the closing remarks of the Guerman in the course of which he supported Mr Streamvess lyenger's view, thu meeting terminsted

Rajahmunday College -The Principal's report on the working of the Rajahmundry College during rereds the fact that in the matter of strength and attendance the Unllege bes regained ite former etrength The strength in the B A claves was en improvement on last year, Brahman students preponderated as usual, the after classes having been represented in comparatively small numbers The majority of students belonged to the Gedeven and Kieine districts. The College baving been newly a "listed in Branch VI-Languages.... the Principal pointed out the necessity of appointorg in addition to the Pardite a predvate in lenguages to track the subjects on the modern hers erquired by the University, the admintion and mental outlook of the Pendits being approved to the cettiral and historical treatment of the largueges corrected The Principal has been informed that the Director sees no occasion for the appointment of a separate graduate in tappeagram addition to the Papping 62 students were sent up for the Insermediate examination and 27 curs out successful with three in the first clase 20 andents were sert up for the B A degree examination for all branches. The results were excellent, especially in linglish. Of the 23 sent up en abre achiert 20 passed The recents were an improvement over the previous year's, being Re. 19 Pil weapaint Re 16 151 in the previous year Posts of brekey tennes and bedminess were placed by the students dense the pror The bestel had 24 hearders and Tlodgers as apaint "O last year. The discipline in the College as remeted to

have been satisfactory. Sir Alfred Bourne states that the generally efficient condition of the College was creditable to the Principal and the staff

Government Girls' School, Triplicane - The following G O. No 586, Education, dated 21st June, 1913, has been usued :-

In their Order No 238, Educational, dated 23th March 1912. the Government appreted generally the proposal of the Director of Public Instruction to the Director of Public Instruction to and to transfer theoret to Tamill Training Section of the Presidency Training School for Mistresser, The Director now submits detailed proposals for raising the school and the training section to the carbicular of the combined institutions. each of extallightunes of the combined institutions.

2. His Excellency the Goreone in Council is pleased to sacotion the Director's proposals sobject to the substitution of the following modified scale of pay for the proposed establishment:—

Secondary School — Superintendent, Re 230 10-300, Headmetres, Re. 150-5-176; First sciented, Re 100-5-126; Second sestiment, 73-5-100; Two assistants such 75-5-100; Three assistants each 50-2-60. Three superintenders such 40 2-30. Three superintenders such 50 2-40, One Telegon sessistant, 50-2-60.

One Telago sesistant, 50-2-60, Training section — First sesistant 150 5 178; Second assistant 125 5-150; Third assistant 100-5-125

Common assistant 120 o 100; Lintra assistant 100.5-125 Common assiton —One mass teacher 40.0 drawing mistress 40-4.60; One clark 20 1 5f; Two peons, such 5; One watcher 6; One gardener, 7; Three conductresses, each 3; One aweeps, 4;

(The increments will to all cases be aponal)

The sanction will be registered as No. 57 of

 The extra charga in 1913 14 on account of the proposals now annotioned will be met from the lump provision of Re 15,000 in the current year's budget for a Government Escondary School for Girls in Madras

4. The Government agree with the Director in considering that the transfer of the Maharaja Girls' School to the Educational Department abould be naconditional and they approve of his proporal to open negotiations for the purchase of the two plots of land belonging to the action.

Opening at New Rimentary Schools—Twentycos are Francy Schools and the Government of the Codditors Tales Board with the Government of the Codditors Tales Board with the Government of the reconstruction. The other Tales Board was how that their quite of greats. The number of Board and Schools is thus increasing by legs and bonds. The Coddition of the Coddition of the Board of the Coddition of the Coddition of the peanson without mildrary, Tracted that there is exdencing in a comment of peanson of the coddition of the education is now mostly gauged by the sambler of schools, by the number of populs moder instructions

and by the amount of money spent. Under the preasant system, pupils are often lett in the same standard and there is no proper acroticy in regulating their promotions. The three R a do not resulspecial attention and there is tangular retrograming. Elementary achools of higher grades are not mech recorted to for want of incentive.

Education of Sackward Classes.—The following

The Government sanction the expenditure of a sum of R. 4,000 for the apply of hooks, lister and writing materials to poor and backward classes of populs an Government Elementary Schools, subject to the following conditions:—

(i) that the articles purchased shall remain the property of the school and he so marked,

(is) that the Headmanter of the school shall keep a separate list of all the articles with the date of

emphy, and

(iii) that the articles abali be used by pupils
doring school hours only and shell not be removed
from the school

 The charge will be met from the special Imperial grant of 22 lakes for education which has been made evaluable for expenditure in the current year.

St. Mery's High School, Madura, --The engoal distribution of the prices of St. Mery's High School, Madura, was held in the Da Nobill Hall on the 1th east, with the Revd F. Bertram, S. J. Ractor, St. Jorph's College, Trichicopty, in the chair. The bell was parked.

was parked.
Father J. A. Planchard, Managar of the School,
read the report for 1912-1913. The distribution of
prices was away inlaresting one. The list of dozor
of prices included the names of several promisers
gentleman of the town, both European, and Indea.
The Chairman then gave away the prizes.

Bergal Memorial School "The large bill of Breaks' Memorial School we still with a weypitife gathering of parunts and well wishers of the individuous to witness the first distribution of presents the recognition. The chair was test by the Hardbel Sir John Athiesea, IO Sir editors to witness the first distribution of Sir editors to the Sir editors of the Sir editors Large Sir editors Large

Fewkes gave test, meoy of l is skill as a vesy promisprocess to his seedering of Scoomsen's Frieshingselmon's aus Wien, while the members of the subsol char readered the peet cong I would that my fore Miss Goponit very o'lly sensited at the pure

Techers' College, Spillaget.—Of the 33 graduete stedents on the rule to the Spillaget Techers' College on 31st March les the Spillaget Techers' were Mahemmadens, fire Index Change for one Brahmins sed eighty Brahmins These March Spillaget were distributed as follows: These Mathematics were distributed as follows: Science 3.4 National Science 5. sed Blacker, These was only one ledy graduate order training.

A new Secondary School — The 18th August was a red later day in the womal of Koronade suborh of Mayarana Macandary School was concerd that more abort of Mayarana Macandary School was concerd that more than the state of Mayarana were guthered the sea of the ceremony. A new specious building has been accorded at the local schools building the local schools building

Hadmanter to a felicitous speech.

Mr Cd Kunngusber Chettier welcomed the critisions of in the corras of his speech, emphasized this necessity for the Kersned Branch of the deboot as Sellyab wearing commonity, here out been becefiled as the call extent by the adacestoost facilities afforded by the Rucologal High Echool,

Meyavarem, Mr K Seeba Aiyar, in proposing the fong life of the institution, said that a branch was opened at Koranad not simply to remove congestion to the High School but to snable more of the Saliye community to be benefied by the bigber education Impressed spop the sudience the importance of e keowisdga of Fuglish as a necessary medium of commencetion to e trading community end said thet the cuisens of Korenad should not reet content with having brought the action to these midet but should try te reep the fullest becefite eccoung, by sending almost all their children to the school. Theo Mr N P. Arishnaswamy Alyae addressed the meeting Our Koranad cuffree have been kind enough to invite os to witness the interesting ceremony of the opening of the Secondary School in their locality. It has been their long cheriebed dream and desire-at last it has been realised and has now become an accomplished face by the combined efforts of our Beadmeter and some of the city fathers of Korecad the chief of whom Mr Chidembaram Chettar, e leading light of Koranad, bee been in season and out of seesoo knocking at the door of the Manicipal Council to vend advention at the doors of those who needed

Mayararm Municipality would not have been whet it is now but for Korarad. If we compare

what is called Mayareram—io fact Mahadane and Pattamangelam Streets, with Keronad, we meet yield the pelm to the istur, became at applies more than the home above of the ninews of wer, and with respect to the strength of the population and the number of heaser Koranad heals Maya.

weam hollow

So, the Saliya community has had aways a just
generance directed and levalled against Mayaweam
masmuch as they have been paying the piper for
no many years, and Meyerarannes have here
copying the time. It socks mucy years for it are
copying the time. It socks on mucy years for it are
the social time of the social social social social
Connect to the best and for the Monneyal
Connect to the social social social social social
Connect to the social social social social social
Connect to the social social social social social social social
Connect to the social social

I own that there are e number of Monorcel Framery Schools scattered round keened. The citation bert blush that it is not sefficient. They decision bert blush that it is not sefficient. They decision to be munitared at these Schools scattered bert who, heterose of their trader are, consistent subject who, heterose of their brader are, consistent subject to be subje

how that Keragad has a Secondary School at is the look out of the citizens to see that it is strengthened and misistened to its rigour end finally to secore for its local habitation befitting the traditions and montherace of the weelthy citizens of this place

Males me Geschene, to make an arrest appeal to Mr Cheb make me Chatter and the patients of Knasad to see their way to add to this institution as a fitting adjoint, Technical Classes of Gespority, and Smithy and a Wassing Class, for it is industry, and Smithy and a Wassing Class, for it is industry and muocal isbour that presper a nation. Feature and model in bour that presper a nation. Feature and model in bour that presper a nation. Feature and model is to be the fact that is the seed of the chart of the control of the chart of the chart of the chart of the chart of the world is due to use heigh give methods took.

My one daty new is to exercise my secred fonction and prerogetive es a Brabum to presoner my breadiction over this new born baby. "May the Institution thrive long and be for ever prespectual." Mr. Velsendam Modelier, Tamil Pandit, then

speke emitably in the occasion.

The Chairman elier a brief speech, declared the school open. M if Ry. M. S. hatsa lyer Avi., Chairman Manuer, al Council, proposed a rets of their to the share. First and yet aspan were distributed and the proceedings came to a close.

BOMBAN

Bombey Primery fichools -The folkiming press note has been isseed in the Fdyczine Department, Bomber --

Bomber — The Director of Puller Instruction has recently expresented to Generalized the deprehistry of relating the conductors under which offerents are said from the atomic protection of one lath

for Grants, in-Aid of the construction and aquipment of Primary schools. This processon, which was first instituted in 1905 and to drawn from the recurring great made in that year by the Government of India in aid of primary education in the Bombay Presidency, has bitherin been administered sirictly in accordance with the building grant roles which require that the managers of the matitation for which a great is sought aboutd first provide a ball-share of the total aum sennised. It is now pointed out that the District Local Boards, whose schools form the staple of the eyetem of primary education in the Bombay Prealdency, find it difficult to comply with this condision owing to the inclusic nature of their sevenues and the spereased recorring liabilities which the axtension of primary education and the improved conditions under which it is conducted base thrown upon them. This difficulty has resulted in the provision being only paritally philard, although the need for the better housing and aquipment of primary achoels in admitted up avery side,

2. In these percentiances the Unceter of Pallie Instruction proposed that this annual provision of one lake should, as an experiment for the next five part, be distributed energy the burjete Local Boards in the form of free greats for the constraintion of the provision of the provision of the requirements of Minnight and Aid the Ordinary rections continuing to be met under the ordinary frastiun-Aid rules but from souther accept.

S. Since the above proposals were received, between the Movements of India have made liberal assignments for the general improvement in the Presidency, included senong of education in this Presidency, included senong and applyment of achools mainly of the alementary clean These very considerable additional resources will admit out a wider application of the first contract of the presidence of the presidence of Public Instruction, a principle which has the

5. The allotment of Rs. 12; lakhs will accordingly be devoted to the payment of free building and equipment grants, not only to District Local Boards, but slee to those Municipalities

which are in the greatest need of anishle school buildings but whose flourisl circumstances not not admit of their undertaking the construction of them on the terms leid down in the Grant-le-Aid, suice

6 For the present the existing amonal provision of one lake releared to about will continue to be distributed on the same terms as before. The question of drawing upon it for the purpose of free grants will be considered when the allowment of its 121 lake has been fully aspended.

The Dream College, Poons—The portrist in oil of the 7.6 Selby wa. a. t.o., is Proncised at the Decean College and Director of Public Instruction in the Burbay Freedance, was nutsated on the pruceipal heil of the Director College, This is nection core more, in the presence of a local college, and the processing of the presence of a local college coremony. In the presence of a local college described Dr. fellip as a great scholer, deep policophers and a man of great character and indiscore. He may be a support the presence of the presence

Zenaus Central School — The Howble Mr. Short Director of Public Instruction. Developed recordly at Bernard Control of the Cont

In employe, the Director of Public Instruction Federal On the supervisible increase, to the accession of Mahomedan hops in the Primary School of the Central Distation during the last anomalor which he considered a healthy sign instruction ing the increases in the control of t

Grent Medical College — The Bombay Gereromons have issued a Press Nose reparding the impervement of teaching and raiding the modern of the teaching staff of the Grant Medical Collegeies of the teaching staff of the Grant Medical Collegethey consider that the present arrangement, governing the appointment of bonoray, medical mifeers at the J. J. Hospital, and of pid minor mifeers at the J. J. Hospital, and of pid minor

professors, lecturers and tuture at the Grant Mrdical College, are delective, both on the score of lack of uniformity and because in some cases they are likely to operate to the detriment of the institutions concerned, by preventing the selection for these posts of persons, for the time being, best fitted to fill them to advantage in appersession of all previous orders The tenure of appointment of hono-rary medical officers at the J J Hospital will be for one year These officers will be eligible for re anpointment, provided that no officer shall held the same appointment for more than two consecutive years At present there are four miner pro-fessorshipe at the Grant Medical College, carrylessorsoipe as the Grand attended country cach ing as allowance of Rs 200 a month each in future they will be tenable for nee year only, the term being extended by the Government from year to year, if in their opinion this should appear desirable. The same rules will apply to lectorers and totors as regards fellowships The objects of these are to necourage, after grades. tion, further study in professional subjects and to assist graduates to proceed to bigher degrees. The orders in this instance, ramain unchanged and entrect to the approval of the Surgeon General, may be extended from one to four years by extension of one year each,

ALLAHABAD

Victoria High School, Charipur - A meeting presided over by Mr J W Morris, the District Magistrata, was held recently in the Victoria School, for the distribution of prizes to the students of the Government Victoria High School and certificates to the students of the Victoria Sanskrit Pathebala who pused the Pratham Pariable examination last year. The gathering was large in spits of the bot weather, the District Jodge, the Sob-Jodge and the Deputy Collector being a mong those who were pre seet. The Headmaster, Babo Ram Gopel Mitra, in a short report dwelt apon the improvements effected in the school since its conversion into a Government institution. Then come the report on the Victoria Sanskrit Pathahala read by its Manager, Pandit Ramsaran Lal. He aketched the bistory of the Pathshala from 11a beginning and told bow at at first formed a pare of the Victoria School and afterwards was separated from it whan the school was handed ever to Government by the School Commuttee and how after passing through several Victoritudes esteblished its roputetion for efficiercy and passed all the candidates that were sent up for the Benaies Sanskrit College examination.

The Charrens rose minds can manner.

The Charrens rose minds the chars and addressed in few impressive words in Handmaster of the chool, the Manager of the chool, the Manager of the chool was the charter building in scholars and prest value of character building in scholars and prest value of character building in scholars and prest value to the teacher in tofase in them a high tons. He deel in the charter in tofase in them a high tons. He deel in the charter in the contract of the charter and congratisated the scholars of the Victoria School on the prespect of absently baring a boatel with an ample play ground which having a boatel with an ample play ground which

ought to prove to them of great bruefit Addressing the scholare particularly he advased them to be ob-deed and submission to their parents and teachers to be tran to their conutry and leysi to their king Referring to the unsatisfactory financual state of the Pathabala he advised the Manager to approach the local public in right carnest, and he hoped that the help he sought for the Pathebala woold never be reinsed to it by those who were in a position to help Should this resource fail it would be time for him to consider seriously the case of the matitotion. The boys of the Government Victoria School then received their medals and prizes from his bands and the students of the Sanakrat Pathahala three certificates and also prizes Amprg the medals given to the boss of the Government High School were thren gold medals from an endowment newly founded by she widow of the Inte B Sprendra Narain Rai. MA, LLe who died a sad and untimely death as the beginning of a pinmising career These medals termed burendra Medals are to be given appeally to the best Shumiber boy parsing not of the Ghaziper schools. The meeting then dissofted alter a vote of thanks to the Chairman for the tropbis be took to presiding over the

MYSORE

The Mysers Educational Association—With a view 16 form a seasonition of persons engaged and interested in edecation in Mysers a mesting win a receivaly held in the Coverement High School, Bangalors, Mr. J. G. Tatipresiding These was a large stendance and greater than the standard of the standard sta

Mr F B Sell made an interesting speech
Mr Tait spoke to the following effect —Gentlemen I propose that such an institution as Teachers
Association or whatever you may choose to call it he

formally started
Mr k P Rea seconded the proposition Mr K,
Rawachapdra Run and a few words supporting the
proposition and the resolution was carried unanmonely Mr Fuller proposed the establishment of a
Secretary and Mr. Full was appointed to the place.

Secretary and air oris was appointed to air pints.

Next, a provisional committee consisting of
Messers F R Sell, E P Rier, E P Metcalle, O
Kreibna Bao, S Kriebnasami Iyengar, C, K
haraysua Rac, B Dacappa and V Subrahmanya
Iyer, was appointed to draft the roles etc.

Mr Tain made the following concluding

I have not much to offer as regards the objects of such as Association as this Mr Sell has said everything on this and discussed the question of the status of the teachers in Mysore I thought the I. G. would be here before the praceedings ended. I hope that the Provisional Secretary of the Committee will soon be able to forward the results of the meeting to us leter up

With a hearty vote of theoks to the chair proposed by Mr C Krishns Rao, the proceedings closed-

Village School Fund .- The Inspector-General of Education in Mysore, having submitted the Budget estimates of the Village School Fund

for 1913-14, the Government of Mysors have pessed the estimates, providing for an income of Re 3,69,894 and an expenditure of Ra 4,12,761. The excree of expeeditors over receipts, was, Rs 43,367 will be met from the cash balance of sbone Ra. 46,000 at the credit of the fund on the let July 1913 Charges amone tron to Ra 30,872 have been added, with reference to the Inspector-General's remarks and this som is for the purpose of meeting the cost of new achools and additional hands (Re. 29,632), the employment of a Demonstrator for Megic Lentern Exhibition work Rs. 249, and the lacresse of provision for lurniture and apparatus, Ra 2,000.

COGRIN.

Scholarships.-On the recommendation of Professor T. B. Wood of the School of Agriculture, Cambridge, the period of training of Mr. T. Raman Mecon, B A., at that school has been extended by one year A scholership of Ropece 50 per measum fellen year a scaneran or nopers over measurements were to years by the completion of the course of Miss over the Madras Medical College, has been swarded to P Gouri Ammal of Trichur, who has successfully passed the first year's course to the Rayapuram Medical School and has secured admis-

eion into the Medical College In the coorse of his reply to the peoples' address on the Shaebtiporthy day, it may be ramembered, that H. H the Esjah promised a grant of \$0,000 Ropees towards the encouragement of Sanekrie learning and the improvement of Melayalam literaturs. To obtain suggestions for making the best use of this munificent grant the Durber in Jenuary last, appointed two committees Their reports, together with the Government orders thereon, are now peblished in the Gazette and they certainly make

interesting reading.

The main proposals of the Sanakrit Committee are-(1) that steps should be taken to preserve as well as encourage sedigenous systems of Sacakrit lastning in its higher branches, and (2) that pupils should be prepared for the Oriental Titles Esamination of the Madras University To attain these two objects the Macras Conversity to a time two objects and Committee proped the establishment of a school at Tripnoithnra which has been approved by the Durbar. The school which will be upened early in 1083 is to be ueder the management of a committee appointed by the Durbar, of course, under necessary control by the Educational Department. Out of the total grant of Re 50,000, Rs. 30,00 D ara allotted for Sanskrit and seom of Rs. 13,925 set spart by

His Highness in 1085 for the, encouragement of Sanskrat feerning will also be available for the purposs. Over and abnve this, the Sirker is prepared to make up any deficit that might occur at the end of every year. The Sacekrit Library attached to the Eduvappu will be headed over to the School, and in all futore appointments of Pandits in the School of the State, preference will be given to the students

of this School With regard to the improvement of Malayalam literature the proposals of the committee are not wholly accepted by the Durbar, Some of them, like the one for the starting of a model magazine, are considered by the Durber to be impracticable, if not altogether beyond the legisimate functions of the State. The compilation of so Apple-Malayslam Dictionary, the Durbar is prepared to sebsidise, and a grant ul Re. 5,000 is made towards it. The appointment of a permenent committee to advise the Dorber in matters connected with the improvement of Malayelam literature is also approved; and Mesers C. Achyuthe Mecon, T. K. Krishus Menon, and H. H. the 12th Prince are appointed to it. amount of Re 20,000 will be handed over to this committee who will spend it for the purpose for which it is intended onder a definite scheme seactioned and approved by the Darber.

Lower Secondary Schools -The Dewen hes roled in his proceedings dated the 29th July 1913 that in future all Lower Secondary Girls Schools in the State shall be open to all castes and creeds like boys schools and admission of girls to the let to Brd forms of boys' echoole should be sheelotely probibited. Girls who want to continue their adocation up to the school final coorse should obtain special sanction from the Director of Education for admission into the boys' schools, provided there are no High Schools for girls in such places. The Dewson in accordance with the recommendation made by the Director of Education has priered, the shoulden of the Malaysiam Pandits' posts in the Sirker Lower Secondary Schools with effect from the 1st Chingam 1089. The Director says in his report that the abolition of Paedits' posts will tend to improve the Malayalam work of the teachers in the L.S. Department where everything, according to bim, is to be taught to Malayalam.

Foreign Motes.

Professor Norman Collie .- At the Assembly of Faculties at University College, Gower Street, up the 2nd instant, Professor G. D. There (Deac of the Faculty of Medical Sciences) said that Sir W. Rameny's seccessor se Director of the Chemical Laboratories was Professor Norman Collie. " I cannot record that appointment," he said, "without referring to the remarkable series of investigationa that Professor Collie, io conjunctico with Mr. Petterson, hee made and brought to a suc-

cessful issue during the session Professor Collie end Mr Patterson have investigated the effects produced on gases at low pressure by high potentiel electero discherges. As n comis of these investigations, it is now established that been end beliam can be obtained when the electrical discharge passes through the hydrogen under suitable conditione. Other products of a hitherto unknown cheracter see also obteroed These startling results appear to indicate either a synthesis or n teenemntation of elements, or it may be both combined. It is no overstetement to sey that this will prove to be both one of the grentest discoveries over mede in chemistry and will possibly lead to a solution of the fondsmental problem of chemical science—namely, the natora and relationships of the elements" It was stated that Sir William Ramsay had presented £500 for the purchase of chomical library books and periodicals Professor These also called ettention to the baronetcy conferred upon Sir William Gwyone Erans, who he said, gire the magnificent com of £50,000 in order to promote the recorposetion of the College in the Univer aity It was only now, after eix yeers had elapsad, that he ellowed the fact to be made known.

Students' Honea in Fromwell Road — The Beyond of the Messaging Committee at 21. Growwell Boad for 1912 13 seconds substantial progress to the work of a safeliness of the hones. The total number of whom 12 messaging there was 221 of the safeline students residing there was 221 of the safeline students residing there was 221 of whom 12 messaging the safeline resident to the form that The serials number of daily sendential or total The serials number of daily sendential progress to establish, full corporate life has the tone herein good, the original serial s

LITERARY NOTES.

The Ombridge Histories The 'Cambridge Modern History was planned by the lete Lord Cool in 1869 Tha idea poor which the whole control in 1869 Tha idea poor which the whole control in 1869 Tha idea poor which the whole development of the let fone bundred years development of the let fone bundred years could judge the mose after as homes wiseless could judge the mose after as homes with the wind the portions in not were fainted to write their portions in not were fainted to write their portions in not have a series of the continuous book foot an encyclopment which have been demonstrated to the faint with the continuous book foot an encyclopment which have been demonstrated to the faint with the continuous book foot an encyclopment with the continuous

Several other histories based on a similar plan are now in course of production including the 'Cambridge History of English Literature the Cambridge Midneral History, and the Cambridge History of India'

makey of their and Combridge Manuals is An imported series of high gain and at longing concess and accurate inflore and summar at longing concess and accurate inflore and summar and incompared within the reach of all neckers after the subjects within the reach of all neckers after the subjects accessed with suttery are but a few of the rubplects covered by these volumes which in many cases are covered by these volumes which in many cases are Casabandge County Geographies' which are at Casabandge County Geographies' which are at Casabandge County Geographies' which are at the contract of the school bor of the traceller and class books for the verbool bor of the verbool bor of the verbool bor of the verbool bor of the verbool county of the contract of the school bor of the verbool bor of the verbool county of the contract of the verbool bor of the verbool county of the

The Cambridge University Frees will shortly poblish The Literary Relations of England and Germany in the Seventeenth Orditory, by Gilbert Waterbooks 2s formerly Rebular of E. John's Chiego, L'embridge Turks University German Chiego, L'embridge Turks University German Lesping, slow "A National Spritter of Education, which hes been written by Mr." Howard Whitebouse, which hes been written by Mr." Howard Whitebouse, which hes been written by Mr." Howard Whitebouse, which hes been written by Mr." Howard Whitebouse is the substitution of the sub

Mesers Heffee and Sons, Ltd., of Combridge, have in the press, and will publish in the autumn, e. "History of University Reform from 1800 a.b to the present time, with suggestions towerds a complete echame for the University of Combridge," by Mr. A I Tillyard of St. John 2001ego Cambridge

Me F W Hirst, Editor of The Rennemist, hes written a volume entitled "The Siz Fenice and other Essays which Messes Methem will shortly seen. It will deal with various problems of the day but more especially with Armaments, Tariffer

Foreign Policy and Frisance
The Spedies of the Cambridge University Fress
have undertaken the publication of 'The Cambridge
Technical Sewer' leader the Green's Education of
Technical Sewer' leader the Green's Education of
Department at the Polystehne Regent Street
Lendon), a may and unposents series of books on
sechanical subjects. It is induced to meet modern
to wide in a very perticular.

There are now seventy volumes ready of the Cambridge Manuals of Science and Literature (Cambridge University Press, 1s not each) Of the batch of sen new volumes which have been received.

five deal with subjects of science: "Rees and Wasps," by Mr. O. H. Latter: "Submerced Wasps," by Mr. O. H. Latter; "Subverged Forcets," by Mr. Clement Red. F. R. S; "Wresle-x Talagraphy," by Prof. C. L. Fortescue; "The Wanderings of Animale," by Mr. Hane Gadow, F.R.S; and "Beyond the Atom," by Prof. John Cor The other five volumes, though not so directly concerned nerhous with anhierts included in the curriculum, daserva a place in the achool library. especially Mira Sourgeon's "Mysticism in English Laterature," Mr. A. H. Thompson's "English Monage terfee." end Mrs. Adam's "Pleto; Moral and Political Ideals." Small authoritative volumes of this kind will serve an extremely treefni nurpose in helming young students to ducover their own individual antifules and the antients with which they can concern themselves most profitably In fact, it would be difficult to find more suitable and beinful introductions to the study of large and autometive standard works.

The following editeational books have been recently published -

recondly published.—

The Trapedy of Education. By E. Holmer. 100 gp., Climathiel., 90. Ed. unt. The Prescription of pp., Climathiel., 90. Ed. unt. The Prescription of pp., Climathiel., 90. Ed. unt. Except and Problems in Tracking. By M. V. O'Shea. 283.—1411 pp. Liengeman; 4 ed. not. Except and Problems in Tracking. By M. V. O'Shea. 283.—1411 pp. Liengeman; 4 ed. not. Human Barry and Problems in Tracking. By M. V. O'Shea. 283.—1411 pp. Liengeman; 4 ed. not. Human Barry and the Place By M. D. Harden, 1999. And the Place Barry and the Place B net. Visus : On Education Translated and edited by Foster Warson. 328 pp. (Cambridge University Press 1 5s. uet. Tent book in the History of Modern Elementary Education. By S C. Parker 505 pp. (Gum) 6s 6d. The Poeture of School Children. By Jessie H. Bancraft, 327 pp (Mecmillau)

SCHOOL AND COLLEGE SPORTING

L. M. SCHOOL COINEATURE

The London Mission School First Annual Sports were played off recently. The staff, the students, and a few other gentlemen, European and Indian, in response to the kind invitation of Rev. Hatch witnessed the fonction. A few European ladies ware also present to whom refreebusents were provided in a tent by Rev. and Mrs. Hatch Mrs. Fricher distributed the prises to the winners Mr. Moberly after congratulating the winners dwell npon the importance of sports and appealed to the boys to take particular attention to sporting also. Her. Herch thanked the old boys and the visitors and alter three lusty cheere for Mrs. Further, the gathering dispersed

Frathall League.

PRODUCTION CHAINS The Leaven tournament played annually under the answers of the M. C. A. Association communed

recouly, the opening match being pleyed on the Engineering Coflege ground between the Engineering and Christian Colleges.

The play throughout was interesting to watch, the teams being very avenly matched. The Engineers won she match somewhat luckily, for it wee only late in the second half, when the Christians were handicapped by having to play me player short, Arthur having left the field nwing to a demaged foot, that they obtained the only goal of the evening.

The opening eachenges were decidedly in favour of the Engineers who attacked with great vigour, but Arthur arrested their progress before they got dangerous The next few minutes sew the Christian forwards appearing to considerable edvantage, the three timer men all putting in some vantage, the three timer men all putting in wind fine footwork. The Engineers put up a stout defence and gradually forced the play into the Christian territory once again. Kearing ball, the Christians stacked strongly, but the Engineering defence was too good for them. so that at beli-time the score sheet was blank.

On the teams crotsing over, the play took e fester larn then belore. The Christian attack was more methodical than the Engineering ettack, but they proved to be pelpably week in front of goal. Eachanges were even for a long time when Arthur got burs in a melas near bis own goal soft bad to leave the field. This was a great blow to the Christians, for he had played a really great pass in their defence; and the Engineers Irequently threatened their goel. Yamathri and Denka Chart on whom the brunt of the defence now lell worked exceedingly hard and defended well. However, shortly afterwards Old scored with a levely cross shot from a good centra from the left. With one goal to the lead, the Christian forwards made great efforte to equalian but, lacking finishing powers were unabla to accomplish it. Thus it was that when time arrived the Engineers were left winners of the match by one goal to wil-

MEDICAL V. PACHATTPPA'S.

It was a fairly feet and very evenly contested game that was witnessed in the maleb between the above teams played on the Midical College ground. While the Medicoes were in full strength, Pechijappes were without the services of two of their best playars Sambasira Bao, Ragevendars Rao, their named centre balf and centre forward respectively. so that the result, & draw, reflects great credit ou

From the sick off, the Medicore by dist of some good parsing trensferred the play to the Parbait yappa end. Evidently roused by this reverse so early in the game, the l'achiyappa boys set to work

and the Medicel goal was in imminent, danger frequently After this, the play was mostly confined to midfield for some time Undismayed, Pacharyappa's still continued to attack With the score oee all, the play took a faster turn than before and though both sides alterestely attacked vigurously, neither side was able to obtain the lead before half-

On the teams crossing ever, Pachaivappa's were seen to greater advantage than their opponents for nearly 10 minoton. Though frequently hard pressed the Medicoes defended well and gradually forced back the play to the other end. Then a coupla of free kicks against Pachaiyappas, gave the Medicoes some good chances of acoring but the Pachetyappa goal-keeper asved apleedidly. After this Sebramaeium the Pachatyappa centre for ward broke away in fine atyle but on nearing the Medical end overran the ball and Ramu rushed out aed cleared Nearing time the Medicora forced some coreers but failed to improve upon them Pacliniyappa a petting op a stubborn defence Thus the match ended in a draw, one all

Hockey League

PRESIDENCY & CHRISTIAN

The second of the series of matches to connection with this toureamnet was that between the abova teems played on the Presidency College ground teems played on the Frendeecy College ground. The play was somewhat one sided, the Frendency, who, it will be remarked at the bolders of the many having much the better of the schange english of the played for the schange english wask to fine of branchedory forwards were microbilly wask to fine of the schange of the school was to be supported to the school of the school of the school of the school of the formation and a rather formation and the school of the s fight against these formidable rivals, Henderson

and Ameethanarayaese, both of whom played really well at back proved to be their maintay in the defence In the front line Veecobs Rao wes the only forward who did any appreciably good work occasionally

EVERYERRING P WESLEY This League toernament played accually under the auspices of the M C A A commenced recently. the opening match being played on the Engineering College ground between the Engineering and Wesley Colleges The play though not of a high order or even particelary last was cone the leas interesting to watch, the teams being very eveely matched The opening eachanges warn decidedly in favour of the Eegineers who attacked with great vigone for some time Almida and Vencata ramangula the two Wesley backs repeatedly cleared in fine style However about 10 minotes from the atact, the Eegineers were after all, rewarded, Abmed Baig their opiside left scoring from a mrice in freet of ste Wesley goal Evidently roused by this reverse the Wesleyans took up the attack and though Ramasam; their centre forward frequently put in come very fine atick work he was combin to beat the engineering defence. Nearing the interval thu play was somewhat level and the teams changed ends with the Eogiseers leading by one goal

On the teams crossing over the play as in the closing stages of the opening half was fairly level for a long time About belf way through the second half Ramasawms after cleverly eleding both Bell and Lecamen, the two engiceering backs made a good epening for his elder brother Balish why equalized with e good shot With the score one all. the play took a faster ture and though both sides made great efforts to obtain the lead time now no alteration in the acores, the match thea ending in a draw, one goal each

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(Liberal d sepant to Teachers & Dooksellers.)

The Educational Review.

The report of the Inspector-General of Education for the wear Public Instruc-1911-12, dated the 4th tion in Mysore. 1911-12 November 1912, and the review thereof by the Government of Mysore, is an interesting document. There has been during the year 'steady and aphstantial progress in education.' The number of educational institutions rose from 4.267 to 4.478, and thu number of numils in them from 138,153 to 149, 214, and this netwithstanding 'violent oethreak of plague is almost all the districts." ie sema places so asvere sa to receiro tha temporary closure of echools. In certain peints the State of Mysore is is edvance of the Presidency of Madras and the letter may wall follow in the footsteps of the former. One of these is the large number of Indestrial (not that veges phrase, Technical, which may include anythical achoole. There are tweety-two of them training 1,506 pupils la baedicrafts. Another point in which Mysore bests Madess is in its provision for Sloyd

learn it. This is highly creditable to Mysoro. As Sloyd is a comparatively num " subject" in the School Carriculum and on account of other cases, the work in the Sloyd class is not correlated with that in the other classes; so the Government has ordered the Impector-General to consider and repurt on the best mean of 'co-ordinating it with other subjects on as to turn it to the best advantage." We consider that no one is fit to be tracher of science or of mathematics who has not undergone a complete corres of craptenty and has not, besides, learnt to 'turn' metals and visus, as no non is fit takesher of other

classes. Pepils are traised in Sloyd work in

at many as 49 centres and 2,164 students

anbjects who cannot draw well on paper as well as ou blackboard. A feeble attempt, we believe, is being made at Saidapet to compel teachers under the training to learn a bit of earpentry; but nuless the bolk of teachers realize that the old world-contrast hetween bram and brawn, brain-work and handwork is false and mischievous, that in the child as also in the men, the brain grows in exact proportion to the use of the hand in bandwork, as in the remote past man's brain attained its characteristic superiority to that of the gorilla not by means of his committing poeme to memory but by means of his working bia band in ingenioes new ways, the attempt is bound to fail. Bloyd is not mere mechanical carpentry, such as the professional carpenter learne; it is not a series of exercises in sawing and chiselling and joiotieg, acalogues in the world of wood work to analysis of sentences, transformation of sentences and synthesis of sentences in the world of word work. . Sloyd is educational handwork, the presentation of a series of problems in the form of objects to be made by pepila; it involves the translation of plans into wood-work, it is volves a training is accurate messurement, the overcoming of difficulties by thinking as well as working. But even if Sloyd were badly tenght, mechanical wand sawing would be more useful to pupils, than mechanical word-sawing.

papils, than mechanical word-aswings.

Messas. Wyman and Sons have published in Schools.

Tractical work the report of the Comellar Bedools.

work in accordange-books and it is a very interesticy paper. The idee underlying it is a thorough going application of the old, old, adoestional motto, so fets repeated as a cent phrase, but so saidor remembered in class work—Lesersing by doing. The Committee unbestieting! come

demus what now obtains in most schoolsthe exclusive devotion to "the cultivation of the mind by means of books" To balance and complete this, the Cummittee require that sttention must also be paid to the fostering of " those qualities of mind and that skill of the hand which are evoked by systematic work of the kind described in this report, we think that the time has now come whan every secondary echnol should pravide for the teaching of soms branches of educational handwork, should make them an integral part of its carricalum, and give them a position on the sams level with other subjects studied The value of such work, both as an element of a general education for all pupils and as a preparatory training for the special needs of some, has been amply demonstrated by the wids and representative hody of evidence which we have had before as." This applies with great force to India where we are so terribly examination-ridden, that it is almost impossible to take up any work in schools which does not lead to a pass in some examination or other. It is remarked in the report that handwork has a social value, because it will tond to correct the depreciatory attitude towards work with the bands which no doubt vet exists in Lugland In India, for several thousands of years, the man that has memorized books has been held to be immensely superior to the man that works with the hands-however far-reaching the benefits of such hand work may be-that this corrective, as absolutely necessary The Committee rightly insists on the correlation of handwork with other subjects. Already the school subjects are, in most schools, separated in water-tight compartments, that work during one hone has no bearing on the work of other hours and it will be cruel to add one more compart-

ment to them, though it might be srgued, and that rightly, an hunt's work in the workshop will be a welcome relief to the dredgery of the intellectual (?) subjects Carpestry, the most important form of handwork can very will be correlated with mathematics, with drawing with science l'aper cutting can be connected with Elementary Genmetry, card board work with Geography and so on

As in the case of hoys' schools, so in that of girls' schools, Fuglish The reform in teachers have begun to

The reform of teachers have begun to protest external examina-

Headmistresses has passed resolutions, and arged by means of deputations, that external examinations exercises a deleterions effect on education and that in matriculation pupils credit should be given for the School Record in the case of pupils who have passed through a complete corree of studies for not less than four years in schools inspected by the Board of Education, periodically sxamined by a University Board of Examiners and on the staff of which there is a fair proportion of registered teachers Here in Madras, the S S L. C which was intended to bring about this very reform, has so far as this particular object of robbing examinations of their importance and their mischievous influence on teaching a concerned, proved a materable failure This it will continue to be, so long as the Headmaster is a suspect, so long as the mark awarded by an examiner in the copres of walning ICO answer-books in three weeks time an accordance with the half understood matroctions of a chief examiner is feld to be infinitely more trustworthy of a popular work than the average mark arrived at by a day by-day appraisement made during a period of three years, by the teacher or

teachers who have taught him. If teachers are all dishonant or incompetent to award marks, as educational theory assences, can the chance shot if an Assistant Eraminer remedy the evil? This empution of the teacher is abard, unworthy of the people that unbinkingly idoluse the examination marks. It is highly trun Marker teachers met and protested against this gross injustice they soften most and orotested against this gross injustice they soften most.

We believe the Senste Committee that has been asked to answer this · What to do with question is going to ment Ra. 35,000 a year ? soon. We notice with regret that come people are anxious to ear-mark some part of the amount for European professors and come for Indians. We should think that the race-question is entirely out of place in this question, where we are concerned with rasearch work. In ordinary echool and college work, it is but just that as hatween rivel candidates of aimitar qualifications, an Indian, should in I odia be preferred to a Enropean. But, here, where wa go beyond the ontermost friege of college work, where wn want such work as cannot be provided by colleges at all the question of race does not at all arise. It will he difficult abough to find men, let alone considerations of race. After this proliminary protest to clear the ground, we proceed to express our etrong feeling that a very large part of this money should be devoted to the advancement of Dravidian atudies. Northern India being near the Imperial throne, the lauguges of Northern India have received very much more attention than those of the South. The linguistic anryey has concerned itself much more with the dislects of the Himalayan regions than with the great Dravidan languages; in fact these latter are included at all in the fioguiatic survey under protest and as a kind of accident, as any reader of the IV Volome of Dr. Grieraon's report knows. Wn therefore advocate that the bulk of this Government grant choold be apent on inrihering Draviduo atudies. By furthering Dravidian etndies we do not mean the conservation of the Pandit. The Pandit is a very estimabin person, with a vast deal of knowledge very essential to the nuravelling of veroacular literatures, but such study is exactly

what ought to be done in Colleges-especialfy those devoted to the acquisition of Oriental titles. We hold that Colleges axist for dissuminating what knowledge there is and Universities for discovering what knowledge thorn is not as vot. A University lecturer should he a resourch worker for discovering now vistas of knowledge and passing them on to the College for dissemination. Thus the University lecturer should investigate Dravidian Philology, discover MSS. and edit them, and so on. Under other circumstances we should demand that all this money must be spent on Dravidian languages, but It is a melancholy fact that modern Sanskrit scholarship ie non-existent in Southern India. Wn never had a Buhler, a Cowell and so, while we are far in advance of every other Indian province, in every aspect of education in this one point of Sanskrit scholarship afonn, we are really and truly henighted'. To remedy this a minor portion of this graot may be utilized.

So little does the science teaching in our Blood Parasites, colleges find its way into onr sonls (wa know of a sciance B. A. of the old days who could not read a clinical thermometer) that a fairly large proportion of us beliave that wind and bile and phlagm ocaren through our veins and anbmit ourselves to the medication of the Vydian, all the more an if one of his shots in the dark happens to hit A few of us have a vagen notion that some diseases, especially oholera, arn caused by germs. It will, thernfore, he not out of place to draw attention to the contents of interesting lecture on "Blood-parasities by Mr. H. G. Plimmar delivered at the Royal Institution on Friday, May 2, an abstract of which was published in a recent number of Nature. "A blood parasite is a living being, vegetable or animal, passing part or the whole of its existence in the blood of another fiving build, upon which it lives, this being obligatory and necessary to its life. cycle. They have "an enormous distribution both geographically and as regards their bosts. For instance, during the last five years I have had the opportunity of examining alf the animals (in the large sense of the word) which have died in the Zoological

Gardene I have examined the blood of 8,000 animals, coming from all parts of the world, and I have found persentes in the blood of 587 of them, that is in short 7 per cent, and in 295 species of animals, I have found them for the first time " Mr Plimmer excludes from his purview the microscopic plents, ealled becteria, which ceuse emong numerous other diseases, cholera, censumption, typhoid, etc., for these are not parasites hat only visitors, for they do not live on their hosts The epirochetes are parasites which cause such diseases as relapsing fever, tickfever syphilis, etc. Those causing the first two diseases are carried by, developed in and communicated to man by ticks and bugs The next class is formed by the worms called Filaria, whose embryos live in the blood and developed forms in other parts of the body They cause elephantiasis, varicouties, chylpria and certain tomours. Some of these live a port of their life in the mosquito. The third class is called trypanosomes, which are trans ferred from animal to animal by flice, fleas, lice and leeches One of the diseases caused by them is sleeping favor Then there are the malaria parasites, which again are communicated from man to man by the mosquito Many other fevers are caused by various perasites, the most deadly being the Leisbmania, which cause Kula Azar, Delhi boil, etc.

Following the lead of the Madras University, the Bomhay University The Academical Year in Bombay has proposed to make the academio yeer begin soon and Madres after the annual hurst of the monsoon and end in March The comparatively cooler part of the year-from July to March affords the fittest period for work and the hot months for rest Under the old aystem, whose abolition come reactionaries even now regret, tha best portion of the year-November to Feb rnary-when reel, good work can be done was irrationally devoted to a cessation of achillastic activity The Bombay University requires an attendance of 130 days for keeping the yearly term Madras demands a amailer number of days, every year, s.e., three-fourthe of 150 days, hat avery college, so far as we know, finds it very hard to arrange for 150 days' work in the 2nd and 4th years, because the Registrar's

office demands the ettendance certificates of candidates for the University exeminetions to be despatched prestically 20 days hefore the cod of the term The loss of 20 days' attendance merely to aut the convenience of the Registrer's office is one of the evil influences exerted by exeminations on college work This evil can be remedied by a simple expedient which we commend to the notice of the Syndicate That is to eancel the present application forms which ere sent three months before the examination, and to enhalitute for them a list of pupile likely to appear for the examination eigned by the Principal The day hefore the examination, each Principal may send to the Spperintendent of the Examination, before whom his pupils are bound to appear, e list of his pupile who are posit to appear by reason of short attendance or lack of progress Some such simple expedient will remedy a real null which every Principal feels now

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Longse Pound writing in the Modern Langunge Rettew on ' hlending' Word colnage in as a mode of word-forms-English tion in English, makes some interesting points Thos scurry is a cross between scour and hurry Flaunt seems to blend the elements of fly, flout, vount, etc.; so slump is mentioned as having been built out of slip, examp, plump, thump, bump, etc. Cangle meaning to quarrel, wrangle, haggle, cavil, results from earl, quarrel, terangle, jangle, haggle, etc. Chelp, meaning chirp, aqueak, yelp, clatter, is compounded of chirp, cheep, chatter, and yelp These words have been happily called 'portmantean forms' In discussing this question, the writer points to the permanent association of certain consonant combinations with certain fundamental notione thus sq which is the initial part of squeeze, squeich, squart, squarm (whatever the minimum origin of them words, conveys to Eaglish minds the idea of violent motion t and sh, the final sound of crush, crash, splash, wash, gush, dush, squash, mash, dash, rash, rush, angrest the idee of continuous motion and leads on either to the comage of new words or extension of the meaning of old once An analysis of the roots of the Dravidian languages shows that this phenomenon which is

noticeable in Euglish which is thu last of the innumerable forms which a German dialect or uven a bypothetic Indo-Germanio language has assumed, is a foudamental guidu in the tracting of the roots of thu Dravidian languages. Thus associated with thu sound of -! are the idees of 'insidu,' 'place,' 'location.' 'beiog,' 'mind,' 'housu,' utc.; the idnas of rapid motion, beating, breaking, are connected with thu sound of d. But Dravidian philology bas yut to be investigated and a study of it by one who is trained in modern Comparative Philology and more especially thu latest duvelopments of Phonology and the laws of soundchange is likely to enrich linguistic atudies and enlargu the outlook of the philologer.

Some of our residers may not have heard

The Smitheonian of this institution, which
Institution has for more than 60 years

has for more than 60 years exerted a poworful influence in the devolopment of science in the United States. It etarted with a bequest of Smithson in 1846 of 515,169 dollars, and other haquaete and other courses have now raised its permanent fund to nearly 1,000,000 dollars. This is supplemented by snudry piaces of real estates and various other contributions. The income is devoted to making researches in American Ethnology, Astrophysics, Geology, Biology, to publishing books, unlarging the National Mosenm, etc. The report of its work for 1911 contains in a buge appendix brief, accounts of scientific discoveries in various directions, reports of investigations by collaborators and memoirs of a guneral character or on special topics. Thu subjects treated of can hu judged from thu plates which deal with the gyrostatic compass, Radiotelegraphy, Multiplex teluphony, Invisible light, Artificial precions stones, Legal time, Geologic work of ants, the great horned owls, thu Passenger pigeou, colours of birds and insects, Birds in flight, Nativu plants of nuw Muxico, Tree ferus, Mexican manuscripts. Kabyles of North Africa, Chiusse architecture, Lolos of Kisutchauge, utc. Wn cannot,

of course, in these columns discuss this numerous interesting extentific discoveries here dealt with because they deal with the more recondite partions of science which interests only the specialist. The general reader will read with interest the criticles or sartificial precious stones, legal time in various countries, and profitable and freit-less lites of endeword in poblic bestlik work.

M. Guilbert has introduced a method of foretelling the weather, The Goilbert which is quite different method from and simpler than that of forecasting followed in the Indian the weather. Meteorelogical Department. M. Guilbert obeerves thu speed and direction of superficial winds and the consequent variations of pressure. He regarde winds proportional to the gradient as normal, that for these. displaying more strongth than the gradient would warrent, cause a berometric rice and those abnormal by default a barometric fall, according to the Chemical News. a determining of these mere movements of baremetric pressure allows the forecast of the future of squalls, and also makes it possible to know if such or such depression will he filled up or hollowed out, and if consequently the wind is going to increase circumstances, or decrease. In certain winds by when the aboormal surround a contre of depression, this centre is complutaly destroyed: tempestoous windsand thus the method foretells-are followed by a perfect calm in a delay of twenty-four bours, sometimes even in twelve hours..... The distinction of thu winds designated as convergent and divergent is not less important-The former bays a tendency to contract the depression, to push it back, they constitute a resistance of the invading march of the cyclone or tend to destroy it; the latter on thn contrary, are attractive winds; they conatitute cuntres of attraction of less resistance; they duterminu thu fall of the harometer and

sometimes uven a oyclonu."

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THE PLACE OF PHONETICS IN THE TEACHING OF ENGLISH IN INDIAN SCHOOLS•

IN recent years much attention has been directed to the subject of teaching foreign Languages and great improvements have been made in the methods adopted The Direct or Reformed method of teaching Foreign Languages has come into promiseure, and specially important in Iodia is this method as applied to the teaching of English The chief reform which has taken place in this country is in the direction of emphasis togethe space special Papile are now being taught not chiefly to write English bet

to speak it and a great deal of importance must necessarily be attached to the correct sounds of speech. As soon as a pupil attempts to use words of a Foreign Languege he is met by the difficulties of new sounds-sounds which ha has never enconstered in his own language. In order to atter these counds ha needs to be told how the new counds should he produced This is the work which the science of Phonetics undertakes Phonetics deals with the organs of speech, and attempts to show how these organs must be used in the propunciation of sounds. The importance of the subject is indicated in the Board of Education Circular, No 797, dealing with the achiect of Methods of Teaching Modern Languages

"It is fortunately no longer necessary to ment that the nimest importance should be attached at the earliest stere to the mastery of the sound aystem of the new languages this is naiversally admitted to be an essential preliminary to effective progress Experience shows that the work of the teacher of any hwog language is much facilitated if he has a thorough knowledge of the position and movements of the several organs of speech proper to the production of each sound, and every teacher of modern lauguages should make himself fully familiar with this knowledge not in order to teach the technicalities to his pupils but so as to be able to use it to senst them su overcoming their difficulties

A paper read by Mr R W Ross B A., Vice Principal, Teachets College Saidspet before the South Indian Branch of the English Association, Madras

In the asse of very many children, especially those who hegin the language late, it is not safe to depend on imitation as a means of securing a correct pronunciation-" a pronunciation according to the usages of the best companies." It is especially necessary in many schools that teachers should be able to give systematic instruction based on scientific knowledge owing to the pupils' extremely imperfect power of correctly using the sounds of even their own native language." The need for a study of Phonetics becomes even more argent when we consider the processes involved in Pronunciation as outlined by Wyld in his book, The Historical Study of the Mother-Tongue.

"Before a word is pronounced the organs of speecb bave to perform certain movements and take up a certain position. These movements and positions give rise to certain muscular sansations and when the sound is uttered certain physical sensations are produced upon the auditory nerves. Besides these physiological processes certain pervous impressions are recorded in the consciousness which help to form memory pictures. Thus there are memory pictures of the sound itself and of the muscular sensations and the position of the vocal organs. These memory pictures of sound, movements and position are the psychological processes which accompany the utterauce of every speech sound, and until they are formed the sounds cannot be reproduced. Naturally, first the spacoustomed movements are performed with difficulty, but with practice the memory pictures become clearer and more definite antil the sound can be reproduced accurately. It will thus be seen that the seriousness of acquiring the habit of wrong pronnuciation cannot be

overestimated, because each repeated atterance of the wrong sound makes the immorp pictures of the morements and position clearer and deeper and increasingly difficult to eradicate. This shoe explains the difficult what teachers have of correcting wrong promocistion acquired in the early years of their achool course. They have obtained memory pictures of the sounds and positions peculiar to their own language, the muscles have become fixed and it is difficult for them to experience the new muscular sensations which ore necessary in grappling with the new language."

Mong or PROCEDURE.

We may all recognise the importance of the above remarks and realize that very modis necessary in the direction of imporing the pronunciation of the popils; yet at the same time as there seems to be a good deal of has neas with regard to the method followed in teaching the subject of Phonetics, I think! desirable to give a brief online of a possible method of teaching the subjects.

Bazathing Exercises.

The first thing to consider in the mean h, which sounds are produced. That implies study of the vecal organs and of the process and you find the process of breathing. Speech is often defective because breathing is defective, and therefore the importance of breathing exercises cancel he overestimated, for, by the ejection of the hereth the vocal cords are made to vibrate and by their vibration sound is produced which is modified by the throat, noes, month, and lips. Each sound is the result of certific definite actions or positions of the vocal organs by which the sound passage assumess certain definite actions or positions of the vocal organs by which the sound passage assumes certain definite actions.

until the pupil can control his breath he cannot read or speak correctly. In the lower forms, it is desirable to devote a few minutes of every lesson to breathing exercises until the pupils show themselves capable of regulating their breath. Time will not premit me to monition the various exercises which are indispensable to correct breathing, but the subject may be studied in Eurell Cixias Speaking and Good Realmo, (Polibers Lougmans Green & Co), and Hulbert Breathing for Norcel Productions, (Publishers Novelle & Co.)

When a teacher speake to his pupils clowly and plearly the organs of speech which are apparent to them are negally the tongue, the teeth, and the lips Recognizing this fact the teacher will ask his pupils to direct their attention to the position of these organs in the proppugation of certain sounds. He will first of all take the simple sound common to must languages which is represented by the eymbul "a " He will call attention to the position of the lips and the flat positine of the tongue He mey then proceed to give the sound "1 " and will make clear the altered position of vocal organs From that sound he may proceed to the sound "u "and will show the rounded position occupied by the line. As the tonone in the pronunciation of the "u " sound is not visible it will he necessary to tell the pupils that its position has changed and that the tonone matead of heing raised at the front as is the case in giving the "11" sound is raised at the back and he should seek to enable the pupils to gain control over the movements of their tongue by repidly changing from "1;" to "n;", maintaining a fixed position with the lips As the pupils are not always sure that they are imitating the teacher, they should be supplied

with bond mirrors so that they may test the accuracy of their imitation After the pronunciation of the shove three sounds the pupils may be taught the manner in which the ";" and the "w" sounds are produced In the pronunciation of the "1" sound the tongue is raised at the front as high as it will cu, and m the pronnuciation of the "w" sound it is raised at the back to its utmost The transition from "1" to "1" and from "u" to "w" is quite simple, but the numls must be taught clearly the difference which exists in English between the sounds, because there is a great tendency amunget Indian numls to enhatitute the consomental snunds for the vowel sounds, e g. THE IS often substrinted for IT and WONLY IS substituted for owly The 'w" sound is always a difficulty because it does not exist in the vernaculars, and the best wey tu secure a good prounnoistion of the "w" sound is tu exaggerate the rounded position occupied by the lips The series of vowels represented m the "a " to "; " series is known as the "Front Series" because the tuneus is gradually being raised at the front, and the "a " to'n " series is known as the "Back Series" because the toppne is graduelly being raised at the back. The yowels occurring is the Front Series are u a. r . e. e 1, 2 as in the words "est, AT, AIR, END, RIGHT, IT. CAT" The vowels in the Back Series are "o "as m ox "o" as m oungr; "o" se m SOFA. "" as in POOT. "p" as in POOD. The pupils should have regular Phonetic Drill in these sounds and practise the I cont and Back Series until they are conversant with them Special attention must be given to the vowel sounds which do not occur in the vernaculars The aounds "m", 'o," "o: " E: occur and the sounds represented in the

vernaculars by "e" and "a" are, generally in English diphthongs and should be prononnced as "ei" and "ou"; sa in the words "BAIL" and "No." Other wawel sounds peculiar to English are the unaccented absoure vowel ... o ... as in the word nerour ... e.... as in the word oran; "oi" as in the words "nor and enerce." It is a good thing for pupils to prononnee these sounds in chorus provided sufficient privacy can be secured, for the repetition of the sound by the whole class tends to fix it in the memory of the pupils and a good teacher should he able to discover both by looking at the pupil and hy hearing bim whether he is uttering the correct sound or not

In the treatment of consonental counds much attention should be given to detecting the difference between the voiced and voiceless consonants, and much practice abould be given in counding the various pairs of consonants together such as "p" and "h," ";" and "d", "I" and "v". Considerable attention should be directed to the task of producing the sounds of "f" and "v", "t" and "d", send 0, as these counds are new to the vernscular. The position of the tongoe for o and 0 and for the sounds "f" and "v" most be carefully noted and the slight explosive sound in the prononciation of "t" and "d" requires partioular attention. The difference hotween " v" und" w" must be clearly emphasised and contrasted with the sound in the vernaculare. Another consonantal sound which is frequently mispronnunced is the sound of "z" which is often given the sound of "a", hecause it is frequently represented by the symbol " a": s. g., in the word Eyes, "z" is the final sound and not "s" as occurs in the word "tor." Another consonantal sound which is often forgotten is the sound of "h." Because it is sometimee omitted as in the words more and merk and moscus, pupils frequently omit it in each words as House, mass, min, de. Special combinations of consonants are also important, e.g., "astr.", "ast.", stretch, awect.

We are all owere that English epelling is very apphanetic and one of the difficulties of currect pronunciation results from the peculiar orthography which is the possession of the Euglish. The International Phonetic Association has drawn up a system of phonetic symbols which, if properly understood, enable any one to pronounce a word with accuracy. In the first year of teaching English it is very desirable that the pupils should refrain from learning anything which interferes with correct pronunciation. There is no doubt that the ordinary orthography acts as a deterrent in acquiring good pronnuciation, and for that reason it should be avoided. At the eams time, it is too much to expect a pupil to he able to remamher all the sounds he has beard; and therefore, although writing should occupy a very insignificant place at the beginning of the study of English, it is very necessary that whatever writing is done should be in phonetic symbols. The objection brought against this is that there are very few books written in phonetic ecript and that therefore the pupil is unable to read English at all. Personally, I do not consider that a disadvantage, for it is one of the defects in the teaching of English that pupils are made to read English before they can talk it and before they understand what they are reading. A system of teaching English which keeps books out of the hands of pupils for at least the first few months in their study of the anbject is to be welcomed. The only symbols of the sounds attered by the pupils

should be the phonetic symbols which the pupils themselves with the help of their chacker have written. It is a good exercise for the pupils to group words according to the sounds which are common to them. After teaching the sound "2" the pupils should group all the words together which contain that sound, 9, nairs, calls, ratis, ratis, after teaching the sound "f," let them group together the words which occur in course of conversation, onch as, ray, rates, ratis

Another objection brought against phonetic script is that it apoils the pupils' spelling We have to admit that the pupil must sooner or later make use of the ordinary orthography. and it is surmissed that those who have learnt to write in phonetic symbols will make some fearful howlers when they write the ordinary symbols This is one of the fears which mitigate against the teaching of the phonetic script, but it is not a realised fast. The sub-18ct 15 so new in this country that few can definitely say that phonetic symbols lead to defective spelling, whereas those who are conversant with the subject can deficitely say that the spelling of pupils trained by the new method is not inferior to that of those trained under the old method. If the teacher in his transition from the phonetic script to the ordinary script is careful to point out to the popula the difference between correct pronunciation and correct enelling and to call attention to the appearance of the word, the pronunciation of which has long need laminato the papils, the emphasis placed on correct spelling by the new method will be much greater than that secured by the old method It is a good exercise for the pupils to write in phonetic symbols a sentence or two in order to test the accuracy with which they hear sounds. But after the first year the phonetic script should be sparingly used and emphases placed on the ordinary spelling Popils should, of course, retain their knowledge of the phonetic symbols and whenever the teacher wishes to discriminate between sounds which seem to be somewhat alike, the difference cen be well illustrated by writing the sounds on the black board in phonetic script, eg xws, yourse, rice, rates, page, pag

When the speech sounds have been correctly uttered in eingle words, attention must be directed to their utterance in conjunction with other words, otherwise, an artificial pronunciation will be cultivated , eg, the pupil learns the two words separately 'that' and 'book', but often in rapid speech we do not wesh to emphasise the word 'that' and we pronounce it simply as get. This leads us on to the question of stress and intension in speech Stress depends upon the dagree of force with which the air stream is expelled from the lungs, and it is the variety of atress in the Eoglish language which contrasts so strikingly with the absence of it in the vernaculars As we all know, the sobject is one of exceedingly great difficulty and it is nacless for any teacher to attempt to define the roles of stress Knowledge of the subject can only be learnt by the use of the word or words in speech and by reading phonetic scripts of passages with intonation corvesanch as have been prepared by Daniel Jones, Yennung, Ernet, Great and Llayd Ernet on his New ENGLISH GRAMMAR discusses the anbiect of stress with his saual thoroughness

This grouping of words togother is sometimes called breath grouping and implies that a certain number of sounds are attered with each expiration and thet the breath must be carefully austained to the very end of thy

SEPT. 1913.

phrase. The unaccented syllables maak not be slorred over, but some of the articulatory movements will be reduced; e.g., maxo and manuseculer; creater and escustamas; day and sunday; ford and oxford; land and island.

Intenstion is a question of pitch and alterations of pitch are produced by tightening thu vocal cords for a high toos, looseoing or shortening them for a low tone. How important this aubject is nvery onn knowe who has listened to achool hove reading alond their texts. As a role there is no variety in intonstion, but a monotonous level is maintained throughout and very little meaning ie conveyed by the pupils' effort. It is very often difficult to discover from the reading whether a question is being asked or a statement made or au exclemation expressed. Although the passage read iedicates that a certain character is apeaking either solemnly or jokiegly the pupil usually ignores the mood of tha epeaker and reads the whole passage without feeling and without expression. So much variety of meaning can he conveyed by the tone of the voice that it is essential for good reading and speech to develop the tones of the hoys and to show how various moods and emotions can be indicated by raised or lowered pitch of the voice.

. PROSODY.

The bearing of all this on the subject of English Precody must be ovident. Without a Knowledge of counds, accentration and rhyme, poetry cannot be appreciated and coassion cannot be attempted. Became the subject of rhootics has not received very much consideration hitherto, tha subject of remained presumably has been neglected. Yet how is it possible for a pupil to appreciate poetry, and

to read it with appreciation without a koowledge of the metre employed? As Bradley observes in his book THE MARING OF ENGLISH, "the sound of a word has a real intrinsic aignificance; for instance, a word with long vowels which we naturally utter clowly anggests the idea of elow movement. Repetition of the same consonant anggests the repetition of movement; alow if the vowels be long, and rapid if the vowels be short. The vowels that are produced by the passage of the breath through a narrow opening, auch as, i and i, are enited to convey a notion nf something elceder or slight, while a full vowel, auch as u, suggests a massive object. A syllable ending in a stopped consonant, especially an unvoiced one, like "p", "t" or "k", preceded by a short vowel, affords a natural expression for the idea of some quick and abrupt action. Sequences of consocents which are harsh to the ear or lovolve difficult musculer effort in utterance are felt to be appropriata in worde descriptiva of hareh or violent movement."

Buch explanations as these are uniatelligible to the papils who have not stodied to counds of Enginsh and therefore a great deal of the profit that may be derived by a study of postry is denied to them.

THE HISTORY OF SOUNDS.

When the pupils have studied the spokes language of to-day a nocessary part of their training it English is a study of the history of the English language. Popils should know something of the changes which have taken place in the development of English and the changes in words correspond to a change in sounds. Once phonetics has been studied, phonology may receive soun attention and not be relegated to the college course

PRONETTICS AND REPUBLISH SPECIAL What is to be the attitude of the teacher of phenetica to the subject of refermed spelling? He is conscious of a radical difference that exists between phenetic spelling and the orthodox script. At the same time he is particular to teach the difference that exists between the two and is insistent on the latter Our spelling is out of data and no longer represents the sounds as proponeced to-day Printing has done much to fix the standard of spelling and has checked the progress of the written language. There are those who wish to reform apelling and to make it phonet The teacher of Fuglish, however much he may be in aympathy with the movement, nenally feels that it is impossible and madvisable for him to teach reformed spelling until there is a concensus of opinion as to what extent reform is permissible. The achool that find that its pupils have a difficulty to obtain- tents. An Loglish Phonetic Dictionary, pro-

ing nitestione and therefore until there is a general opinion in favour of certain reforms at will find it necessary to adhere to the old apelling Yet enrely some reform on a email scale is possible and the example of America in gradually year by year introducing a naw spelling of a few words may well be followed last not possible, by means of school textbooks to gradually introduce a new enelling of certain words which shall be accepted by most people and could not the University be the nower to decide which words admit of an alteration so their spelling? The amount of time that pupils new apend in cramming up an artificial apelling menermens and this time would be saved and more profitably devoted to developing a gennine lasting leve of literature, and an acquaintance with the savince of the greatest of our literary artists if reformed apelliog were considered desirable and generally adopted

AIDS TO THE TRACKER OF PRONETICS Charts of the vocal ergans such as are poblished by The Cambridge University Press and models of the organs of speech arn useful for pupils of the higher forms. There is also a series of sound charts prepared by Measrs Peredrich Ransch and Daniel Jones and published by Dent & Co of the position of the tongue occupied in the proponeistien of vewels and consonants appear to most of the books on phonetics and a list of these books is published by the International Phonetic Association reference to the applied of the teaching of phonetics is made in the Mensay Layorage Traceiso, a magazine published by A & C Black, Soho Square, London W., and teachers of English in India will always danve teaches the reformed spelling will probably much benefit from a perusal of its con

pered by Michalis and Junes, has recently bean published and is worthy of a place in avery school library. Another sid, conocially useful in schools where English horn teachers are not to be found, is the gramophone. Teachers experience difficulty in always pronuncing the same word in the same way and they cartainly find it rather monotonous to be continually operating before their popils. Now, in a gramophoun the advantages are obvious, if the records have been well made. There is a breath of English atmosphere, intonation and pitch about a gramophoce which is not always apparent in an Indian teacher and it certainly can minister to the delight and improvement of the class without necessitating any napenditore of energy on the part of the teacher. Of coorse it has its limitations and it can never take the place of a teacher, but it can supplement his work. Mr. Daniel Jones bas written a book entitled Phocetic Readings in Eoglish, published by Carl Winter, Heidelberg. and gramophone records have bean prepared of the whole of the accodotes contained in that book. They beloog to the series known as the Eoglish Edocational Records and may he obtained from any agent of the gramophone company. One word of warning, however, must be uttered to the effect that the pronunciation represents that of the educated classes in the south of England and there is grave doubt as to whether that pronnedation is typical of the educated classes of England and Scotland. The difficulty of fixing the standard of pronunciation is always felt and the teacher of phonetics will have to decidn which standard he considers it desirable to adopt and having onen fixed that standard ha must endeavour to abide by it. or otherwise there will be "confusion worse confounded."

MEMORANDUM ON MODERN TELUGU RY

P. T. SEINIVAS AITANGAE, M.A. Principal, A. V. N. College, Virag. MODERN Telugu is the Telugu now spoken by the educated classes of the Telago community living in the Telaga country. It is, for all practical purposes, noiform except in the border-districts where contact with other languages has affected the idiom. As a general rule a writer nught to use in bis composition poly such forms and such vocabulary as occur in the polite conversation of educated Teluga gentlemen and ladies of the upper cleases. It goes without saying that the so-called volger forms of the uncultivated dialects as well as obsolete grammatical forms and expressions should be avoided, except when they are used io proverbs, etc., if it is the aim to secure as many readers as possible. It is allowable to use not only

nges if they are current. 'Coined words' A few points are mentioned to indicate what is meant by the brief description given shove. Forms of Wards.

Sanskrit words but words from other laogu-

ahould be avoided.

(1) The written eymbols should represent as far as practicable the sounds of the word as heard in careful, deliberate, forms utter, ance. The word is the unit of composition, Each word abould be written separately except in enupounds in which Sandbi is compulsory; s.g., debbaladu (සදාහන්); raniyyi (vances). In other places Sandhi is unnecessary, absolutely in bucks written for ynung nhildren, s.g., čmi kāya (సమ కాయ) i emitahire (DD bo); eminara (DD pro),etc.; not čnkaya (No Too), čotebíra (No fo), čonára .

- (2) Half anosware () and R (w) should be given up
- (3) The vowels in words like clake (JeV) tabilsks (JeV) maredeln (250500), in modern Telege, ere due to the Live of Vocelie Harmony and are therefore right, though in an older stege of the language the forms were of Herent from what they now are
- (4) The finel vowels to such words as vedine (25%) may be written according to the best usage with which the writer is acquainted
- (5) The medial and (in some words) the final consocents may be either voiced or unvoiced, e.g., vetiki (201) or vediki (201) and tabituku (2016) or tabiduku (2016)
- (6) When two consonants no a word are assumited owing to the disappearance of the nitervening rowel as in mappe (ωω) the older form marepn (ωπ) kaloud not be used Bat forms like ligate (ωπ) kaloud not be used batterns like ligate (ωπ) kaloud (ωπ), abould not be written lake (ωπ).—) and kello (μπ). As a role if the restoration of a lost rowel looks pedantic, it should be dropped, eg, noten (ωω) not noutes (ωω) veddo (ωπ) veddo (ωπ) veddo (ωπ) veddo (ωπ).
- NB -No rules cen be laid down for gardance in each cases. It is better left to the discretion of the writer
- (7) The augments 'y' (&') and 'n' (\$) heve almost disappeared in modern Telogo, a g Old Telogo adya? (wow) Modern Telogo ada? (wor!) Old Telogo ada? (wor!) Modern Telogo ada? (wor!) Modern Telogo ada; (wor!) Modern Telogo dânilo na(na)ds (wre" azje az, wea)

- (8) The variants in mmn (κ_e) mbn (σω) of words ending in ma (κα) as garramma garrambu, for garram should be avoided as well as veriants of other words when they are out of use
- (9) The r in such words as kiago (5%)
 pratti (158) has disappeared.
- (10) Foreign words should be written as far as practicable in the way foreigners pro nonnec them unless they here been clierally mod field in the current usage. (Eg.), rain (6mes) noddo (6*%), kal ktaro (*2%%) not kelaktera (*2*%%)
- (II) The compensatory length of vowels abould be fully represented eq. lu ls ("τσ") = Old Trioga kudan ("τσ"), tells ("τσ"), ans ("σ"), and ("σ"), and ("σ") = Old Trioga and ("σ"), atta ("σ") = Old Trioga att ("γ") toom ("σ") \$\)
- (12) The length of a vow 1 due to emphasis should be fully represented, adv (ఆడ); adi nikalamu (ఆడీసీకలను), aitā (విగ్రా), iokā (ఇంగా)
- (13) The length of a vowel due to the dropping of the conjunctive perticle a should be represented as in vadu nonu (కారూ షోహా)
- (14) So also the lengthening of the consonant as in vadonou (జాడున్నా)
- (15) In case the letters of the traditional slphabet do not accorately represent the counds of the modern spoken Telugu, some modifiers may be used Decleasion

i Obsolete plarala like vändra (బాండ్రు), kālala (శాశులు) iidala (ఇండులు) ere to be

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avoided. Vallu or raudlu (mg or mog.). kallu (mg), illu or indlu (ng or nog.), are

- to be used instead.
 2. Pronominal forms like, sinn (UM), Smu
 (UM) are obsolete. Neun (MM) and memn
- (సుము) slove are current. Nanu (జాడు) and māmn (డాడు) belong to low-caste dialects.
- 3. Honorific forms like gyans (ఆయక),
 varu (অজ), garu (মজ) which Old Telegu
 ignotes are to be used when required.
 Modern Talegu distinguishes between ammagaru (অগ্নাম্ক) and ammavaru (অগ্নাম্ক);
 vatengaru (অগ্নাম্ক) and attagaru (অগ্নাম্ক);
 vatengaru tehlunavaru (অগ্নাম্ক) and
 z pillala tahinavari[u (০০ শহদা[u) (৬ হ্লাম্ক)
 ব্যৱস্থা (অগ্নাম্ক).
- 4. The modern decisnation of vadin (కారు) is vadini (జానికి) or vanni (జాన్లి), vadi (కారి), vadiki (జానికి), stc.
- 5. Vani (was), vāniki (was?) should not be used as the genitive and the dative of the neuter plural; in their place va(i (was).

vatiki (well) should be used.

- 6. Soch forms as gunālo, gunālas gurtālas gurtālais or gunācaka (స్టారం, స్టారం, స
- 7. The so-called case suffixes ponts (2-0-15), kole (1-19), kinsi (1-2), or kunsi (2-2), goritshi (2-0-0), kürtehi (2-2), sto., are all obsolete.

- 8. Tsheta (26) should be used instead of tshetan or tshen (26% or 25%), and to (64) or ide (64%) instead of 150 or 154an (64% or 642%)
- 9. Such genitive constructions as a desamuna-varu (a desastra), ngisheppins mats (x Thusand) are obsolete.
- Nonthi (%00) may be used sa well as unpil (%03). Both of them are to be added on to the Genilive (or the Cred) form c.q., akkid a (or i) nunpilor akkid a (or i) nunpilor of (or i) nuch of (or i) nuch i.
 Levi, a kkid a (or i) nuch i.
 Levi, a kkid a (or i) nunpilor akkid a (or i) nuch i.
 Levi, a kkid a (or i) nunpilor akkid a (or i) nuch i.
 Levi, a kkid a (or i) nunpilor akkid a (or i) nuch i.
 Levi, a kkid a (or i) nunpilor akkid a (or i) nunpilor akkid
- (Fram), vella (up) instead of values (un)
 may be used.

 12. Yokka (2008)—) is modern; but it is
- 12. Yokka (the first is modern; but it is unnacessary to use it in connection with every possessive form.

 Conjugation.
 - 1. Ketjadum (** Joses), ketjam (** 1902) are obsolete aither as present or future forms 2. Ketjadon (** 1905), ketjam (** 1917)
- rettinan (Least), rettisadan, (Lipage, are opsolete.

 Rettinann (Pages), rettisadan (Lipage)
- ిట్టుమునుండిని) are obsolete.

 4. Kottiliva (గాట్టరిలా) (as antiparetire), kettuduna? (గాట్టుకు జా?) (as an interrogative) are still current.
- 5. a as an emphatic particle, e or e as an interrogative particle as in nena (\$\frac{\pi}{n}\$) = I myself and 1576? (\$\vec{v}\$) = did you not
- myself and rave? (vr3) = did for here come? are obsolete.

 6. Kottnya (rypus), kottatam (rypus).
- kottadam (to & & S), may be used.

7 The following forms are current — Kottatannāna (కోట్రావున్నాను), Kottināna (gram) or Kettman (rema) Kotiniann (ాట్లులాడు), Krttann (ాట్లడు) Krttaledn (్ట్రార్డ్), Kottsdamnledn (్ట్రామంలేజు) Kottagalaun (press) = I cen atrake, Kottalenu (Phota) Kottadankı (Phops). Kottudunu (್ ಭುಜನ)=I should or would bave beeten, Kottn (1 tu), Kottandı (1 tool), Kottekn (アムな), Kottakend: (アムギロス) Kottudama (timeram) - used only in the first person plural (let pastrike) . Kottavalenn (೯೬ವರಿಸು), Kottavatanna (ొట్టవర్సుడ్), Kottakudada (reixess), Kottite (reis). Kottina edala ("284220), Kottinațiuite ("25 ై కే), etc., Kottakunte (కొట్టకుం ఓ), Kottaka. pote (ಕ್ಟ್ರಾಕ್ಟ್ ಕ), Kottanı edala (ಕ್ಟ್ರಾವಿಡಿಂ), Kottuid (wor), Kottaka (p. Kotta (trg)

8 Modera optional forms —Kottand ledo, tittanu ledo (గాట్రమారం, తిట్టమారం) Kottäiedu, tittäiedu (గాటారం, తిట్టారం) (ende I 13) may be used

9 There is vast difference between old usego and modern masge in the case of common Verbs, some of which are used as Anxiheries andoccur in the essande of identative expressions. Old Telego, nåkad valsyon (xVascour) — Modern Telego, nåkad kåvalent (xVa Tracs), Old Telego nåka dabeysrådn (xVa tracs), Old Telego nenn tahvya kvådad(%m dominatod). Old Telego nenn tahvya kvådad(%m dominatod). Old Telego

vādu pāren (బాడు పారెక్) = Modern Telugu vadu pā npoymādu (బాడు పారిపోయినాడు)

Veys, vect (daw, db), etc, are undispensable to Modern Telugu Ite older form vestas (20) is quite obsolete, so also ita infinitive variau (2xc) so that Old Telugu varia sădu (2xc) e obdern Telugu v-yaiādu or veys kedadu (2cc krāc)

Snob idiometio phrasee as Akeli gī unnedi-(ఆగరా అన్నద) orn kalisevetū un(ma)di (ఆగర కేమ్లా ఉన్నది), bheyam vēstandi (ఇతుంచేట్లం), pitshi etlindi (పిర్బ ఎత్తింద) orpitstsi pattinadi, (పిర్బ కట్టికల్) must he usad freely instead of Old Teliga āksli vodaminedi (ఆగర కాడముడు), bhayamu gadirinadi (భూరము గుర్కరి), which are quite obsolete

10 Telugu has up passive voice The pade (だた) form may, he used only in its proper sense as in add kanahadadu (セコ ジョングン) It is wrong to say natishets notinabadina (デーラルのであるが) for neur untehina (元本 ののでう) unless the meaning intended is 'what I happened to place 'what I happened

Arrangement of Words

tebesinava kava teheppina poni ani emi teëja dam? (వర్లానే ఆరుగుబాదుగాని మంజడి. ఎంబడు చేసిబాతు కాళు. చెప్పకుని అబ—ఎమిచేయిండిప్). need not be avoided, when natural.

Synonyma.

Telegu dictionaries (modern or medizeval) ignore all distinctions between evnnymous words, e.g., kaka (TE), vetsa (EGA), vedi (원리) nel ņam (육주화) are used in colloquial Telugu each in its special sense; but so-called literery Telagu uses them indiscriminately. It ie bezidea thought that all possible synnuyma of concrete nonus should be used in a passage to avoid repetition. This, instead of being a grace of style, is in reality a mark of a vicious style. When a story is written about a kaki (378) it is best to call it a kiki (478) throughont, just as when a man tells a story about bimself be uses I (#m) throughout and does not bunt for synonyms for the first personal pronoun.

Even grammatical forms supposed to represent the same relations contain sobtle distinctions then wild sink the properties of the same wild sink the same wild sam

Obsolete Words and Sauses.

Thousands of words in the dictionary are obsolete; they should not be used. Many

have changed their meaning and application tailing (58), kampo (808), repn (58), tegulo (3800), miles (2000), taile (2000), solve words should be used according to modern usage.

Zanakrit Worda,

Many Sanskrit words naturalized in Telege have a seene different from what they have in Sanskrit, e.g., abhysataram (2055055), margāda(20525), tgraham(205055), margāda(20525), tgraham(205055), margāda(20525), soundtesm (20525), bidzam (20525), soundtesm (20525), bidzam (20525), soundtesm (20525), bidzam (20525), soundtesm (20525), bidzam (20525), soundtesm (20525), soundt

So-called Hybrids — Some compounds used of Sanskrit and Telage words have been accepted by Pandits, because they have been used by old poets, a.g., karakaribeds (fastests). It is irrational to object to the use of similar later formations which or a freely need by the people in daily life, e.g., duralartifa (accounts). If they capress ideas naturally Compounds of English and Though words of Hindustani and Telagu words, too, here become naturalited, e.g., rail bat qi (Tomosoco).

Some of these which occur in literary Telugo, a.g., mānisi (man) are not in ass new. They are to be avoided. Others have come into any which were never used in old literature, a.g., manishi (man).

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HEAT A DETAILED SYLLABUS THERMOMETRY

Definition of temperators flow of heat temperators analogous to level.

pressure, pitch or poteetial Comparison uf temperatures the sense of touch oot a sure geide (Glazebrook, p. 10 Gregory & Simmoes I, p 95) Some other method of measuring temperatore Tha effects of heat change uf state or size or temperature. How expan eion may redicate temperature Choice of thermometrio aubstance Solids, Louids. gases mercury, water, alcohol Coud tions vroused died but mais out ye bodains od of and S mmoes, pp 95 96) The fixed points fundamental interval scales of temperature Definition of degree Conversion of degrace from one scale to snother Graphical exercases, loterpolation, fied ng the equation of the graph

Construction of a mercury thermometer Determination of the fixed poriet; precautions to be taken Graduation of a mercery thermometer Comparison of the mercery and other thermometers Ressons for select ling mercury as a thermometric cubatance

Comparison of two thermometers: Graph to show correction. (Woollcombe, Exp 3) Find the error in the lower fixed point (Woollcombe, Exp 4) Find the error in the Builing point taking site account the pressure of the (Woollcombe, Exp 6 Sinclair, Exp 17) Spe cal forms Rathertred & United Six'e.

Wiy must the spaceabove the mercery in a thermometer be free from air I—Why is the wall of the bull of a thermometer very thic, while the wall of the stem is thick I— What would be the eff of (a) increasing the sec of the bell; it's decreasing the width

of the stem of a thermometer I-Why is a small thermometer better than a large one of the for generatic purposes? Healthose some of the deadwontages of small thermometers compared with larger once -ls it correct to say that the temperaters of one body is stiven as great as that of another I-Why is a fewer thermometer made with a very long cylindrical bulb instead of a spherical one I-I-I vie (of the fact that alcohol expands quite irregularly what would be the best way to graduate an achool thermometer I--

A thermometer provided with both a Coeti

grada and a Fabrenheit seels was esed in taking the temperature of a room The sum of the readings was found to be 88 What wen the reading on each again !- What is the temperators of an oil hath, when the reading on a Fabreubert thermometer standing in the oil is twice that of a centigrade !- What to that temperature at which the reading of a Fahrenbeit thermometer is se far above zero na it is below zero on the Ceetigrade scale !- A thermometer is graduated so that it reeds 15 in meltieg ice and 60 in normal steam, coevert into dagrees Ceet grade, the readings 20 & 90 taken on that thermometer -The boiling point of water scording to a certain thermometer is foeed to be 98 b C when the barometer pressure is 745 mm What is the error of the thermomater at this boiling point?-What is the correct temperators when this thermometer reade 20 degrees C , asseming the zero point correct ?-If a thermometer rends one degrea C in melting ice, what is the correct tempera ture when this the rmometer reads 22 degrees C . assuming that the boiling poiet is right !-In a certain experiment only the helb of a thermometer is exposed to the temperature that it is deared to messure. If this tempereture is above that of the room, will the reeding of the instrument be too large or too small?

Expansion of Schibs.

Bough experiments (Dar and gauge and Gravesende's apparatos) to show both linear and enbical expansion in solids. To show that different bodice expand differently when ranced to the same temperature (Exp. 9, Glazz-brook). To measure the co-efficient of linear expansion of a od (Sinclair, Exp. 19: Gregory and Redley, Exp. 116) Exp. 12, Woollcombe may be reserved for demonstration. The co-efficient of plation the same as for glass. Relation between the co-efficient of collicar, separatical and cobical expansion, (The debrunication of the co-efficient of oblical expansion of glass or of a solid—Woollcombe, Exps. 13, 14, 15.

Practical consequences of expansion— Graham's mercerial pendolom, Harrison's Gridiron pendulum, halaoce wheel of a wetch, dial thermometer, Trevelyan's Rocker,

Effects of expansion: large iron girders, gas and water piprs, furnace have, rails.

The lorce exerted by a body in cooling— (Evercise 9, page 30, Sinclair)—advantage taken of this force in drawing together walls that have deviated from the vertical, in fixing fron tyres to acrit wheel, in the manufactors of large gams. Hopert's drops, Bologua viale, Annealing glass.

PROBLEMS.

A stiff brass wire, hearly half a metre long, is supported stably like the beam of a halson, When the wire rests horizontally, one are in warmed. Why does the hosted side sink?— A long glass tabe is fixed at one end in a clamp so that it stands in a horizontal posi-

tion with its free end just opposite to a mark. Place a flame under the tube and heat it. The free end first goes above the merk and then gradually goes below it. Explain .- A glass rod is graduated in millimetres and is correct at 0 degree; a rod of steel is graduated in millimetrre end is correct at 15 degrees. At what temperature (above 15 drgrees) will the lengths of the divisions on the two scales be equal.—A copper rod is inserted in a glass tube so that they coincide at one end. If the co-efficient of linear expansion of copper is double that of glass, and the length of the tube at 0 degree C. dooble that of the red, show that the distance between the other ends of the tube and rod will be the same at all temperatures .- Explain why glass stoppers can often be looseced by 'narefolly heating the neck of the hottle,-How would you conatruct a large metal rod so that its length would not vary at all with the temperature? -What solutione possesses a very small co-efficient of expansion! What use can be made of it (Invar '0,000,009)? The decaity of lead at 0 degree C. is 11 4 gr, per c.cm. Fred its density at 200 degrees C. (Co.eff, of exp-000029).-The brass pendulom of a clock beate ecconds exactly at 25 degrees C. How many accorde a day will the clock gein if the temperature falls to 0 degren C. ?

Expansion or Liquids.

To find the effect of heat on liquids (Exp. 20, Sinolair). Different liquids expand by different amannte. Do liquids expand regalarly 7 (Expts 5 & 6, Hintool), Comparison of the moreousy and other thermometers. Donaity of water when heated—Cold water float (Expt. 9, Rintool).

Ideas of absolute and relative dilutation (Glazebrook, p. 76). Co-efficient of absolute dilatation Co-efficient of enbical expansion of glass, co-efficient of apparent expansion of liquid (Jones, p. 47). To measure the co-efficient of apparent expansion of a liquid (Sigolair, Exp. 21, Hedley, Expte 117, 118).

(Determination of the asms by the bulb tobe, Woollcombe, Exp 17 Determination of the co-efficient of cubical expansion of mercary at different temperatures by the density bottle. Woollcombe, Exp 21 Determination of the co-efficient of cubical expansion of a liquid by Mattheesen'e method Woollcombe, Exp 221

Corrections to be applied to the reading of a barometer (Woolloombe, Art 1)

Maximum Dounty of water. (Exp 22, Sindler, Expts 19, 20, Glazebrook or Exp on page 280, Narasa's Physics) Draw two graphs (1) abowing the relation between 4 and v (2) abowing the relation between density and temperature of water (See Physics) Tobbe 13, page 559, Gregory and Hadler). The part played by the anomalous expassion of water in the economy of nature Orsphic representation of the change of volume and temperature accompanying changes of elate of water

Penerana

Alcohol is found to be about 3 per cent more in volume during symmer than during winter. How can a sharp eprist dealer take advantage of this 1-A bollow sphere of motal is so constructed that it floats in water as 9 degrees C with almost the whole of it below the surface of water. Explain what happens (1) when the water is beated above 9 degrees C, (2) when the water is cooled from 9 degrees C to 0 degree C.

Describe in detail the process of freezing of a pond until the nee is strong eneigh to anpport heavy loads. What would be tha effect on its bearing power of breaking the see all runnd the edge?—On a cold winter day when the temperature of the air soll degrees C below zero, a hole is made in the see of a deep pond and the temperature is observed at varience depths. What kind of a thermometer would you propose as most suitable for the purpose? What variations would you expect to find? Give reasons for your answers—Ex roses 1, 7, 11, 12, 13, Gregory and Hadley, pp. 171-172 Examples 6, 7, Glaz-Sprock, page 95

EXPANSION OF GASES

Fffect of best on genes (Exp 23, Sinclair) Exercise 1, page 48 Sinclair Galileo's ther cometer, indications depend not only on the temperature but also on the presure of the

To measure the conficient of expansion of a gas at constant pressure (Exp. 24, first and accound method, Stoclar, Frpte 24 and 25, Woollcombe) An interesting method due to Mr. N. H. Williams of Indianapolis is described in Cluste's Luboratory Muncal Exp. 88, pages 159 160, Charles's Law Graphical representation of results Absolute server Prove that the volume is proportional to the absolute temperature Charles's Law and Explice Law combined Problems on reduction of volumes in N. T. P. (See Macasir, Art. 71. Note to the teacher)

There efficient of increases of pressure when the volume is constant (Simelair, Exp. 25, Woollcombe, Exp. 28) Description of an au-thermometer

R-lative merita of gasee and mercury es thermmetric ambatances. How 150 degrees C or + 1000 degrees C have been determined Definition of a degree Centigrade on our thermometer in terms of increase of volume or of pressure. Differential air thermometer.

PROBLEMS.

Compare the amount of oxygen takee into the lungs at one inhelation in summer when the temperature is 30 degrees C. with that inhaled in winter when the temperature is 20 degrees C. Exercises 16, 17, 18, 19, Gregory and Hudley, p. 172.

CALORINATES-SPECIFIC HEAT

Datination between heat and temperatore. Illinois on temperature and water-level. Changes of water-level in commonicating vessels of the same size. Mustree of equal weights of hat and cold water (Esp. 122, Oregory and Hadley). Changes of water-lavel in commonicating vessels of seequal size. Loss and gain of heat (Exp. 123, Gregory and Hadley). Mixture of onequal masses of hot and cold water (Exp. 123, Gregory and Hadley). Mixture of onequal masses of hot and cold water (Exp. 124, Gregory and Hadley). Heating effect of water depends upon its mass and temperators. Unit apantity of heat. Calculations of the number of notifs of heat for water.

Helstive capacity for heat. Analogy between fluid level and heat capacity. The same quantity of heat produces different changes of temperature (Lip. 125, Gregory and Hedley). Comporison of the rate at which water and mercury gain heat (Exp. 126, Gregory and Hedley). Different quantities of beat in equal weights of different substances at the same temperature (Exp. 127, Gregory and Hedley). Different quantities of boiles for beat and capacities of results for beat and capacities of results for heat. Substances experimented urranged in the order of their capacities for heat. Results capacities for heat. Results capacities for heat, Substances experimented urranged in the order of their capacities for heat.

of different amounts of heat io balls of lead, iron, bismuth, tin, &c., taken out of hot oil and dropped simultaneously on a cake of here-war.

Definition of specific heat. R lative capacity and relative density. Specific heat and specific gravity.

Determination of the water equivalent of a calorimeter (Expl. 28, Sinclair, Woollcombe, Exp. 27, 28, 20, Riotooll) Relation between water-valum and heat capacity. Specific harder of a solid (method of mixtures) Exp. 20, Sinclair and Woollcombe.

Determination of the specific heat of a solid lighter than water or of one that slicks to the test tube (Woollcombe, Exp. 30).

Determination of the specifi heat of a liquid, e.g., mercury or turpentine by the method of mixtures (Woollcombe, Expts. 32, 33, Sincleir, Exp. 30, first method).

Determination of the specific heat of a liquid by using a solid of known specific heat instead of a second liquid (Sincloir, Exp. 30, second method, Wollcombe, 34).

PROBLEMS.

Under the equator the sorface of the ses ecarcely attains a temperature of 80 degrees C., while the sand of the Sahara becomes helf-ed to 70 degrees C. Wby?—Why is mercerf need in thermometers?—A piece of plainium weighbigs 100 gyrams for taken from a formes and plonged instantly into 500 gyrams of water at 20 degrees C. The temperature of the water rises to 30 degrees C, What is the temperature of the formace, if the specific head of plainium is OGS2 —Too't temperature of a foot-warmer, which is preferable, a bottle containing 10 lbs. of water or a 10 lbs. bottle containing 10 lbs. of water or a 10 lbs. block of iron, both initially at 100 degrees C.

Explain your enawer—On entering the sea on a sommer morning the water feele cold, but in the evening it feels warm. Explain this —A proce of toned from is found to have a specific heat of 0.09. What is the percentage of from end of the present?—If the specific heat of copper is 0.003 when the Cootigreds each is used, what would it but if the Fahrenbert scale were used?—A mass of 250 gr of copper is bested to 100 degrees C and placed to 100 gr of alcohol at 10 degrees C contained to a copper calorimeter whose water equivalent is 20 gr. The temperature rises to 30 degrees C, find the specific heat of alcohol

SOLUTION. FUSION SOLIDIFICATION

Melting points of orystolline and smorphous substances Molting points of siloys, eg soft solder To find what happons when no is beated (Exp 6, Sinolar) To find the melt ing point of parafin was (Sinclair 8, 35, Woolleombe, 6, 7)

To determine the melting point of an alloy (Woollcombe, 8). Temperature ramane constant during the process. To find the relative density of too (Fep. 7, Sinclar) contrast the behaviour of toe with thet of peraffin or steerice Other exceptions, cost iron, type-metal, antimony, &c. Adveolage taken of their exceptional behaviour Relation between melting point and pressure. Bottom ley's Expt. (Sincler; Exp. 9, Olazebrook, Art. 108 (2)). Glazer mution

Determination of the latent heat of furion of ice (Sinclair, Exp. 32, Woollcombe, 37) Determination of the heat of fusion of parafix (Woollcombe, 33, 39) Importance in mature of the high latent heat of fusion of ic Determination of the specific heat of a solid by the fusion of ice (Woollcombe, 31).

To find the amount of hest absorbed when salt is dissolved to water (Woollcombe, 36, Succiar, 34). To find the effect of solids on the melting point of too (Exp. 10, Sincler), To find if the melting point of too varies with the amount of sultressot (Exp. 11, Sinclar) Freezing mixtores

2 parts of ponoded ice and 3 parts of crystels of Cal Chloride }-50°C Ice and ice cream Fabrenbeit zero

Solid fication —To observe the development of beet produced by solidification (Exp 29 Glazobrook, Exp F g. 349 Nersan's Physics Exp 21, Millikan and Gale's Luboratory Physics)

PROBLEMS

Sinclair, Exp 9, Questions 1 and 8

Why are gold come stamped not cast f—if the latent heat of fusion of ies is 80 when the Centigrade sole is used, what would it he whoo the Fareheit soile is used, what would it he whoo the Fareheit soile is used f—Explain why sailt is admetiment thrown on ier side-walks on cold winter days—Give two resions why the ocean freezes less easily theo the lakes—How does the presence of the tubs of water in a cellar tend to pravent the freezing of vegetables?—How do you account for the leaking of water pipes after a severe front? How can you prevent the pipes from being horset?—Explain why the ice of a pond, which has just froze, is sometimes found to be overbanging the edges

EBBLLITION AND LATENT HEAT OF STEAM

Different liquids have different boiling points. To find the boiling point of liquids (Exp 12, Sinclair, Woollcombo, Exp 9)
Determination of the boiling point of a saline salotion by the air thermometer (See also Woollcombo, Exp 27, too high) To find the effect of importise on the boiling point of the control of the con

water (Exp. 13, Sinoleir). To find if the boiling point of water varies with the amount of ealt present in the water (Sinclair, Exp. 14; Woollcombe, Exp. 11.)

Graphic representation of the relation between the boiling point of a solution of common ealt in weter and the amount of ealt present from data given in Physical Table No. 19, Gregory and Hadley. To find the effect of increase or decrease of pressure on the boiling point of weter (Sicolair, Exp. 15; Rictord 22). Place a flesk containing hot water and a thermometer in the receiver of an air-pump and exhaust the air. To show the relation between the temperature at which water boils and the presente to which it is enbject (Ex. 57, Crew and Tatuall). A simpler form is also described in Narasu's Physics, page 310. Precantions to be taken in marking the hoiling point of a thermometer. Hypsometry. Papin's digester.

Latent heat of raporisation of scaler. (Sinclair, Exp. 33; Woolloomhe, 40), Determination of the heat of raporisation of alcohol (Woolloomhe, Exp. 41). Reficing sugar, fuportance in nators of the high latent heat of vaporisation of water.

PROBLEMS.

Why do fine bubbles rise in a vessel of water which is being bested long before the boiling point is reached? How can you distinguish between this phenomenen and boiling?—Why does stem produces much more severe borns than hot water of the same temperature?—Explain why a tea kettle sings before it begins to boil. Why does a large deposit of dow prevent the temperatures of the air from falling very low? (Exercise 3 of Exp. 15, Siochir).

EVAPORATION, VAPOUR PRESSURE, HYGROMETRY.

Difference between evaporation and challition. The effect of temperature, pressure, extent of surface and a current of air on the rate at which water or alcohol evaporates. Comparison of the rate of eveporation of several liquids, say, weter, alcohol, cerhondi-salphide, ether, oil. The presence of muisture in the eir demonstrated, Cooling caused by evaporation (Gregory and Hadley, Exp. 133). Freezing of water by evaporation of other (Exp. 134, Gregory and Hadley). Icemachines and their construction (See Gorton's Physics, Art. 21). Advantage taken by mancooling of pavementa, rooms and wine in summer. How a dog cools itself. Why after violent exercise one should change. Woollaston's cryophoros.

Риовекия.

Explain why water can be frozen in a dry climate by exposing it in a hellow pass under a cker sky even though the temperature of the sir be above the fracing point.—What mass of either at O degree O, must be exposited in order to freeze 5 grammes of water at 0, the latent heat of either being 55?

Condensation, Distillation, Separation of a mixture of liquida by fractional distillation (Sinclair, Exp. 67). Why does the distillation of a mixture of alcohol and water always result to come extent in a mixture of alcohol and water []

VATOUR PRESSURE.

Preliminary ideas. (Erp. 29, Jones' Practical Physics). Satarated and unsetureted vapora-The pressure of a vapora increases with term perature (Jones' Practical Physics, Exp. 30). To compare the pressure of verious liquids at a given temperature (Exp. 187, Gregory and Hadley). The vepour pressure is independent of the pressure of sir. (Exp. 183, Gregory). and Hadley) To measure the pressure of squeezes vapour at different temperatures (Woollcombe, Arts 42, 43) (Determination of the pressure of alcohol vapour at different temperatures Woollcombe, art 41) The capour pressure of a liquid at its beiling possis sequal to the aimospheric pressure (Sinclair, Exp. 16, Guegory and Hadley Exp 130) Definition of holing point Determination of the beiling point of alcohol (Woollcombe, Exp 10, Gregory and Hadley, Exp 140) (Effect of change of pressure on the boiling point of alcohol (Ex 145, Watson's El Pracheal Physics)

PROBLEMS

Dose heating the air in a room remove the water vapour? Why is the air in an artisficulty heated room in nally dry? Why are morning must divaspeted by the rising out. Make a graph to show the maximum pressure of water vapour hetween 0 degrees and 100 degrees C Questions 2, 12, 14 and 16. Gregory and Railey, p. 202.

HYGROMETET

Absolute amount of moisture present in eir the chemical hygrometer (Expt 142 A, Gregory and Hadley) (Calculation of vapour pressure and from the tables of the hygrometric state Too bigh Sas Jones, p 71 . Glezebrook, page 148) From the data in Table 17, Gregory and Hadley, draw a graph connecting the temperature and the aqueous vapour present Relative humidity Dew point Aluminium cap hygrometer or Deniell a or Regnault's (Exp 143, Gregory and Hadley; Woollcombe, 45) Meson's Hygrometer (Calenlation of aqueous pressure, dew point and relative bumidity from tables See Glaze brook, pp 155 180 end Ward's Exercises in Elementary Meteorology, appendix Determination of the constant of a wet and dry bulb

thermometer, Woollcombe, 46 Determination of the mass of 1 litre of laboratory are (Exp 47, Woollcombe) clouds, heil, enow, fog, dew, mast. froat

PROBLEMS

When it is dry and hot, one feels cooler during exercise in sonshine and open air than when sitting in the house Why !-- Why is the climate of Canada delightfully cold '?-Is the climate of the interior of Australia healthy ?-Why is the equatorial region of Africa called the" White Man's Grave ' !-- A person wearing spectacles comes juto a werm room after a welk in the frosty air What happens to his spectacles and why ?- If on a certain day, it was found that the dewpoint was (a) very high . (b) very low : (o) equal to the temperature of the air, what would be the hygrometric state of the air in each case?-Four pegs are driven into the ground and the four corners of a blanket ara fixed to them Would you expect to find dew under or on the top of the blanket?

Сочристюн

Conduction defined To show the veriable and steady state in the conduction of heat (Exp 36, Sinclair) Repeat the experiment, with an iron wire and with a glass rod To compare the relative conductivities of metals, (Exp 37, Sinclair or Exp 155, Gregory and and Hadley, Exp 12, Rintonl) How to calculate the relative conductivities of the metals Metals arranged in the order of their conducting powers Graphical representation from data given in Physical Table 20, Gregory and Hadley Perform the experiment anggreeted in Exercise 2, Exp 37, Sinclair, with rods of copper and lead and explain what happens when longer cylinders of the came metals are used (Co-efficient of conductivity (Gregory and Hadley, pp. 217-18). To compare the conductivities of a thick wire and a thin wire of the same material and to find a relation between the relative diameters of the wires and the relative conductivities of motels (Exp. 38, Sincloir, Exp. 11, Rintonl). Metals good corductors of heat (Exp. 39, Sinclair). Davy's Safety Lamp. Effect of different conductivities of wood and metal (Gregory and Hadley, 142), To show that a body becomes a worse conductor of heat when powdered (Exp. 40, Sinclair). Comparison of the conducting powers of different kinds of cloth (Exp. 41, Sinclair). Practical effects -uses of flannel. Norwegian cooking stove, holling water in a paper vessel. Water a poor conductor (Exp. 42, Sinclair or Exp. 156. Gregory and Hadley). Poor conductivity in gases. Thermos Flask. Refrigerating Chambers. Dress of man.

PROBLEMS.

How do the Esquimanz manage to live in hats built of ice !- How can a silver spoon he distinguished from an electroplated German silver spoon, by inserting them both in but water!-Why is a floor of marble much colder than a wouden floor !- What happens when a stream of hurning alcohol in popred over wire ganze with narrow meehea? -Why is it warmer in winter under a thatched roof!-Explain the term 'insolation' --Why will the mulstened finger or the tongue freese instantly to a piece of iron on a cold winter day but not to a piece of wood?-Why can hot water be punred lutu a glace beaker bot not into a glass jam-jer without cracking it?-How is beat conserved in hoilers!-Which would be warmer-one thick blanket or two blankets of half the thickness of the former !- How is a football field pro-

tected from frost?—Why ere plants often covered with paper on a night when frost is expected? Ex. 8 & 4, Exp. 42, Sinclair.

CONVECTION.

To show how liquids are heated (Exp. 43, Sincilis). To show that convection assists the heating of a liquid (Exp. 44, Sincilair). To show how bouldings are heated by means of water (Exp. 46, Sincilair). Convection currents in air (Exp. 45, Sincilair). Principles of ventiletion (Gregory and Hadley, p. 221). A bot-lair heating system (Gortow's Physics, Art, 257). The cause of the draught in a chimney. Land and see herets, monsoons, trade winds, coon corrects.

PROBLEMS.

What are the chief objects of ventilation I— How is this effected in the case of (a) a living room; (b) a school room—Why does increasing the height of a chimney increase the draught!—Exercise 27, p. 233, Gregory and Hadloy—Why does a small mice where roats when placed never a lamp chimney!— Why are narrow chimneys hetter than wide once!—Explain why the pointed and of a weather-cock is always toroud towards the wind.

RADIATION.

First notions of radiant heet (Exp. 4). Shodair). To show that radiant heat travels us traight lines (Exp. 4). Shodair with sericise). Comparison of the radiating powered various surfaces by means of a strip of senitive paper or Crooke'a redimenter (Exp. 5). Shocakir), Omperison of the shorbing power of various surfaces by means of a strip of societive paper conted with these curfaces (Exp. 4). Shodair). Radiation may berefer ted by a polished surface. Does it part through glass? Greechouses. (Kertoff

Law of Gooling, Hadley p. 224, Woollcombe, Art 48, Rintonl, Exp. 41) To plot the curve of cooling for in calorimeter and to determine how much beat is given off by it in unit time in a given temperature (Exp. 49, Woollcombe) Specific heat of in I quid by method of cooling (Sinclair, Exp. 31, Woollcombe Lxp. 35, Rintonl 34) (Comparison of the emissive powers of two substances e.g., lamp black and tufoll (Woollcombe, Lx. 50).

PROBLEMS

Which will be cooler on a hot day, a white but or a black one?—Which makes the better teapor, silver or earthenwars?—Why should fire irone be brightly polithed?—A echool room is beated by hot water Should the pipes be polithed or dall?—The bulbs of two diestical thermometers are coated, the one with lampblack, the other with safter, compare their readings (1) when in a water-hath in a dark room, (2) when in the sun, (3) when exposed on a clear night, explaining why they do not warre on all these occasion.

HEAT A FORM OF ENERGY

The nature of beat; historical survay; Joule's experiments; the value of tha mechanical equivalent. Experiments to illinstrate the conversion of motion into heat (Exp. 163, Gregory and Hadley). Generation of fire by friction, of wood on wood at sacrifices, and of sofficient beat to holl water by friction. Is the reverse true? Discuss what happens in the steam engine.

Determination of the mechanical equivalent of heat (Exp. 164, Gregory and Hadley and Mallikan and Gale's Laboratory Physics, Exp. 20).

Compression and expansion of a gas Heat by compression—the fire syringe (Exp 165, Gregory and Hadley) Cooling by expansion

(Exp 166, Gregory and Hadley) Apparatus for the conversion of gases into I quids Typical justance of carbonic acid cas

Inspection of a model steam engine See also Exercise 62 Crew and Tatnall, All the American echool text books give a description of the ateam engine in the various stages of the invention. A talk short solar energy

- LIST OF PRACTICAL EXERCISES (QUANTITATIVE)

 1 Comparison of two thermometers—
- Graph to show correction
- 2 To find the error in the lower fixed point
 - 3 To find the error in the boiling point
- 4 To measure the coefficient of linear expansion of a rod
- 5 Fo measure the co efficient of apparent expansion of a liquid
- 6 To measure the co efficient of expansion of a gas at constant volume
 *7 To measure the co efficient of increase
- of pressure at constant volume

 8 Determination of the water value of a
- 8 Determination of the water value of a
- 9 Determination of the specific beat of a solid
- *10 Determination of the specific heat of n solid lighter than water

 11 Determination of the specific heat of a
- liquid, e g , meronry or turpentine
 *12 Determination of the specific heat of
- alcohol by using a solid
 18 To find the melting point of perefin
- wax

 *14 To find the melting point of an alloy

 15 Determination of the latent heat of
- finsion of ice

 #16 Determination of the latent beat of

*16 Detarmination of the latent beat of fusion of paraffin wax

- 17. To find the boiling point of liquids.
- 18. Determination of the latent heat of vaporisation of water.
- *19. Determination of the latest heat of vaporisation of alcohol.
- 20. The vapour pressure of a liquid at its boiling point is equal to the atmospheric pressure.
- 21. Vepour pressure method of the determination of the hoiling point of elcohol.
- 22. Determination of the dew point.
- *23. Specific heat of a liquid by method of cooling.
- *24. Determination of the mechanical equivalent of heat.

The exigencies of the echool time-table and the limited powers of comprehension and assimilation of the average High School boy have been kept in view in drawing up the syllabus. Portions above the standard have been enclosed within brackets.

Experiments marked with an asterisk(*) need not be attempted by the average student but may occupy the quicker pupil when he has the time to spare. These quantitative experiments have to be supplemented by a judicious selection ut qualitative exercises at each stage. The problems, &c., are meant to be suggestive and it is only by their correct appreciation that the success of the work is assured. The oral instruction of the teacher is of peramount importance at this atsge of the course and provision should he made throughout for the discussion of experiments and results, and for written questions is volving thought on the principles elucidated by the experiments. His neet demonstrations. are appreciated by the pupil and his lectures prepare the student for the time when lecture

and text-book will be the chief sonrce of information. On the supposition that shout 80 periods of 50 minutes each will be available for the etedy of heet, 24 double periods may be set apart for prectical work, 16 devoted to questions and discussion. 16 to demonstration and lecture, the orderly part of the note-hook work also being done in class. .

K. S PARABRAHMAN.

THE S. S. L. C MARKING SYSTEM."

THE object of the marking system is to ateadily and equably regulate the work of the boye, and put a check on epasmodic, fitful and despitory work. It does this estisfactorily; but I ask, can this not be done as well, if not better, by a system of periodical examinations? "Exeminations, again!" you exclaim, "a plague upon them ! It is to them that all avite of the nld eyetem are due-the mechanical memorising, the system of over-violent exertion, permissionely straining the tender, budding brains of young boys."

But, what is our oral questioning? Is not this examination-a dread spectre haunting at oftener intervals than the periodical exeminatice, making its calls without notice of warning, therefore the more scaring, and throwing the victims into greater penic? Here, by the way, a question arises-Which is better: the surprise examination taking the bey nnawares, or the examination with fair netice and warning? The latter has the appearance of fair eed honest dealing, while the entprise affair looks like springing upon the unsuspecting foe at an nuguarded moment.

A paper read by Mr. V. Mahadevan at a meeting of the Tanjore District Secondary Teachers' Association beld in the Town High School, Kumbakonson on the 80th August 1913.

There are teachers holding either view But this is a minor issue, and need not engage nor serious attention this evening

Now, to Questioning How often is this orol questioning to be made? Every dey of the week? "Just put a few questions every day in the old lesson before you start the new one, says the manager, or beadmaster or Inspector, or such men who, not pot to the real and prectical working of it, can only con ceive that teachers are raising unreal difficulties to order to shirk work and have an easy time of their school day Allot it of un hour or 20 for questioning, and then begin the new lesson Alas! How very easy to say, but how very bard to do! What is the extent of the portion that can be done within a period? Take the most serious and businesslike pedagogue, who tekes e streight course, never deviates into a digression, never panses to have a hearty laugh with the hoy, nevee wastes sermous on them Whet can be do so the small remnact of time after questioning? Sixty lines of prose, 30 lines of poetry, soms 4 pages of history or harely one historical thome, and so forth, at the highest computation How many questions, really good and testing ones, can be framed for the next day'e work within that emall and narrow compass? These questions, mind you, must be good and testing, that is to say, carefully and oleverly calculated to test (1) the boys' attention in the class. (11) their preparation at home, (iii) their power of thinking, (iv) their floency and power of expression Their soswers should by no means be mechanical, done with in a word or two, hat most be pretty long so as to discover their capabilities of arranging ideas in proper sequence and clothing them in fitting language without perpetrating belooms sina against grammer and Kiog's English All this implies

a atring of sentences, which the hoys most be delivered of in the short time which the teacher purched for time can afford to give them The teacher then has to sllot hie marks to the idea or matter, sod then the lauguage readiness of atteraoce, and facility of expression, and value the whole answer But, m the first place, is it fair to judge of the boya' capacity from his speaking which is commonly very halting, requiring to be every now and then preed and goaded on, and crossquestioned by the trecher, and which is after attill worded and faulty? How few of ua corselves could pass through the ordes! with any degree of grace and success ? The auswer to the teacher's question is known, but then for speaking it out it requires an address, promptitode, and a taleot, 'the gift of the gah' with which few are gifted The generona teacher must make due allowance for all this He must, within the space of a faw muntes before him, make all due adjustments, and quiet his uneasy, vacillating conscience hefore he arrives at some estimate of the hoy It myolves an noward strongle and conflict and paro, which most be felt by every honest teacher, whose lot is the more wretched and pitiful, because be cannot give nttersoce to it, and make his task master understand the searchings of his beart, and pity him. The teacher bas dooe with it after alt, hot only to a way, and not at all satiafactory to himself "Conscience doth make cowards of us all," and we teachers have been cursed with too much of it

"There is no exactitude or perfection in the matters Don't be squeament and overfeethedness It is all a question of approximation," say but mealers, who to us appear to be ernelly indifferent and easy going But the templers' revaluous qualit 19, over to an

approximation he does not remotely approxi-

Let the teacher then question once a week, a fortnight. Let him devote his whole hunr, if he likes, to questioning and make his rive roce examination. He can attack in the course uf his hour, just three or four boys, and if he proceeds at this rate, how many rounds as they call it, can be clear in a session ? If you conduct such accasional oral examinations. and enter your marks, can these marks be, in acy proper sense, a record of the daily work of the boys? These ere questions and questions; they vary widely in their degree of casioces or difficulty, ie the length of their enswers, ie the demaed that they make on the intelligence, or memory of the boys; and the quostions being put to the boys, each to each, the hardest task still remains, that of arriving, ie the midet of this perplexing diversity of alements, at a eniform standard of valeation. Is not this enough to send a tonder coescienced teacher into a crying despeir? Every answer of moderate length made has then to be discossed and concected. and if yoe bosestly proceed thus, you can hardly question the whole clear twice over in the whole loog term of the year. And yet you are hid to take at least three roundal

There is one device however, by which this difficulty of aral questioning is obvisted, and that is by giving one short paper to the whole class, a non-bour paper requiring very short answers. These cannot, in the nature of things, he acything but short and mechanical. This is indeed a fair test, easily mede, as often as desirable. There is the source set of questions by which all the huys are tested, and the results yield to ue the reletive merits of the boys, judged by a noilinum standard. But

by what strange coestrection or by what atraining of language cae this be called oral examination? How can the boy's power of speaking be tested in writing?

There is one point to which I should like to draw your attention. Our class marks are often put by the side of the public or anonal examination marks, and often tested, in regard to their accuracy and reliability. If there is wide disparity, the inevitable conclusion is our judgment is facity; and we should thereafter be at some pains to try to strive at the figures of the written examination. This is a blauder and the more grisvous because it is made by persons in aethority, with whom it may be indelicate, if not positive trosson, to argue. Sometimes, the Iespector gives a subject for composition and values the papers. Our class marks, if they are trustworthy, must tally approximately with the results of this composition. Or the disparity will be shown you to your mortification; and we shall, be asked to beware. And then what a gaping difference there is between the school marks and the public examination marks! This difference is the more englounding because it is never nuitnrm. Our very good and hopeful boys are often shamed by very low marks and very bad uses, desperately had, score very high marks, and flaunt them epon the pooe puzzled teacher.

The fact is our class marks are a congleserate product of the results of the various conand written examinations conducted in the year. They inclede marks for residist, rectation, compastine, unche-book, hose preparation and whet not. The last pse above the marks not of one year, hat of three past years, spent sometimes in different schools. This is meant to show the history of their three years' life in a very tacque. and arithmetical form I II the teachee adds up all these marks given at various times, and for various purposes, he finds that he arrives at a number which is disproportionately high or low for the attainments of individual boys, he is himself uphast at the absordity of bis own odded up estimate. But that is the tyranny of figures!

This leads us to the question of the epportionment of marks between the terminal examinations on the one hand, and the various occasional examinations on the other commonly accepted proportion is 50 % should think this is attaching too much importance in the occasional examinations. made in very limited portions of a subject. It is vary easy to do well in these examinations in parts and parcels, and though the marks here are evidence of the hove' regular preparation, it is by no means an index of their real capacity. This can be judged only by the annual examination covering a whole book, a whole field of a subject, an intelligent grasp and knowledge of which is tested by questions only at the end of the year is anch a phenumenon as heing excellent in parts, and very indifferent in the whole Here indeed two and two do not make four. The annual examination test is the real test of the hoy's worth end excellence at the and of the year, while other examinations are of velue only in so far es they serve as little prize tows for children for indocement to eystematic work. To say that this marking system has ensured regularity of preparation, and diligence appears to me to savour of a confession of weakness on the part of the teacher, and again to set up marke as an inducement for study seems to be a question able means of education which ought in act forth higher and loftier ideals. At all events,

the bigher class by a may be taught better thus that Ahove all, there is one feature of the marking system which is unfortunately too much extolled; and that is it a disciplinary valuou as of ar ant makes the hope docile and ob dient to the teacher, the mark giver and therefore, the maker of his destines, However it may appeal to our persons vanues, this might tend to develop a charactor in them which is far from monly and noble. We hope it has not bred and will not breed a race of little anobs. Let us regard this, if is the rice, as en incidental evil

If the marking aystem is held es a cood incentive, let it be followed by all means, but let us not overrate its importance L t the anonale zeminetion carry 70 or even 80 % of the total marks of the year, that being the troe and real index of the hoys' attainments at the and of a whole year Lat the ocosaional examinations, which are but moans to the and, he given 20 or 30 %. To this it is objected that the anoual examination is an affair of memory, and it cannot be relied upon If the boys can memorise whole books. how much more thoroughly cannot they do little portions of a book ? The question paper may he su drawn up as to set rote work et a discount, and call forth real understanding and grasp of the subject Euch questions can be more easily set end in largee number in a whole book got through at the end of the year than in limited portions of a book occasionally exemined in Next it is neged that it is the training and the process that matter more then the result But the training and the process are good only in so faras they lead to a desirable end, just as in a mathematical question the method and process are of value only in so far as they subserve to lead to the right solution

end or result is the thing, and the method in unly subservient to it. To attach greater importunce to it bespeaks want of proportion, and a confusion of means and and.

Io conclusion, the marking system, if altered in some respects and misely followed, is
conducive of excellent results. Oral questioning, good and admirable as it is for purposes
of drawing on the latest powers of borge,
affords too clusive and intangible and perplexing material for purposes of marking. It had
better therefore be dispensed with as a means
of examination and marking. In making an
apportionment of marks between the annual
axemination on the one hand, and the occasional examination so the other, I contend
that a far higher percentage than fifty be
given to the former.

A COURSE OF STUDY IN ENGLISH HISTORY FOR THE HIGH SCHOOL CLASSES

(Continued from page 470.)

In this, the third and the last of unr contributions on the above ashject, after having discassed in a way some of the rational methods of teaching History, we think we can profitably devote some space beer to examine the value and the nility of acting practical exercises in the subject. Incidentally some hirts, as to have them axercises are to be attempted, will not be found to be out of place and will deserve some attentions and treatment there.

From the details of practical work, already incorporated in the scheme of studies found in the previous issues of this journal, practical exercises in History teaching may include

(a) the use of, end the pupils' working spon, documents and other sources; (b) the drawing up of maps and plans of bettire end sieges; (c) the preparation of geneelogical tables and lines of time; (d) exemptions to places and soenes of historical importance; (c) researchee in History as far as possible, from archaeological, numinatals and traditional sources and relies. Of the fire divisions shown above under 'Prectical work in History,' we have, in a previous issue, spakes enough about the nes of documents and the drawing up of lines of time.

The one point to he noted here is that the teacher should make a judicious use of documents and should with their belp stimulate the thinking faculties of the popils. To anbleve this end, the teacher should read the documents in the class at least twice at first, and then leave the pupils to work upon them. This reads of procedure helps pupils to understand the spirit of the times and the actual circumstances of the situation described in the documents. Once again it most be borne is mind that documents should neither be injudiciously used nor introduced in every lesson as a matter of course. Incidentally it may be remarked that transcription exercises ans piece of practical work may be set to the pupils from these documents. It is really fortunate that English' History unlike the History of India, is not barren of such source books.

A word about the preparation of lines of time and genealogical tables. Papila, while preparing these, may give an artistic turn to their work as by using different colours to denate details worthy of special note. Besider, the teacher with the help of his pupils, when he is doing a particular period in History, may prepars such place and lines of time as are found to be specially important in the period target and these may find a prominent place in the class room. These will be received with avery period in History Though we are prepared to expetiate on the importance of excursions and retearcles in History, as far as our devotion to the amb ject admits, yet we have to consult the local and financial conditions of the school in the matter

Last though not least, we shall not have done full justice to the subject, with which we have been desling all along if we do not eav a word or two about the distribut tion of work especially in English History in the classes where it is taught as upe of the optional enhances The importance of a well thought out time-table for a school can hardly he over estimated It is quite true that "what the correction of sphreets is to the whole school so is the time table to the elass! A difficulty, rather an apparent difficulty, has now cropped up in some quarters in this direction, probably out of a lack of a sense of proportion and out of a neglect of the exact scope of the subject and the degree of information required of pupils who are to study English History se a subject of the C Group Though the difficulty is worked up to such an axtent as there are a)ready, papers read before, references made and proposals enhantted to such focuses of public opinion as the Tanjore District Secondary Teachers' Association, it appears to be no real difficulty after all The practice, gagerally adopted now in most schools of sllotting fire periode a weak for

Eaglish History, is found to be highly asturfactory, and any attempts at cutting short the periods to less than five will be preposterous heades being abort sighted and will sarely result in inefficiency.

In this connection, it will be a source of great relief to teachers and pupils if the S S L C Beard clearly lays down the proportion of marks which the questions on the detailed portion best to those on the culture.

Having thus taken a hird's eye view of the field of History and its requirements, we shall reserve our further talk on this eabjoot, tall any fature occasion for it arrises and complete here the reheme, more than a third of which still remuist to be presered.

But, in the meanwhile, from the above an earnest teacher of the subject readily realises the magnitude and the importance of the work before him and also the extent to which he is to be resourceful. It is no doubt, a matter for great regerts and condemnation that, in the face of so many difficulties which a successful tracher of History has almost daily to face, come Headmasters, probably of a conservativa spirit and of an immobile disposition are blind to the fact that specialisation in the subject is an indeposable to the History teacher as it is to the teachers of under subject.

Our readers and those engaged in the profession will not forget how necessity it is for them to purge their Residmaters of end wrong notions as soon as possible, if education is to serve its real purpose,

A Scheme of Work in English History on the Stuart, the Hanoverian and the Thenlieth Century periods. Pentopa

Torics Headings	Peniode 70 de Diforio	Paserical Work
I. The Singer's 1703-1633. 1. (a) The claims of James to the throne of England. The Sturia's correspond of the kingly office-Religious parties at the time and their attitude towards such other-James I and his opposition—The boms policy of the reign-The Ultrar Settlement-Il. Rescore		Discret of the House of Sinter.
with the Perlis ment. (b) The foreign policy of the reign.—The beginning of England's Colonial Empire—The Thirty Years Was.	2	
2. The difference between Charles I and his Patisment cold-minsting in the Civil War-The Patiston of Eight-The Grand Rammatrage-Ship-moory-Charles I's closen years' tyrany through his had introments-Land and Westernib-The canwa, the progress and the results of the Civil War-The secretion of the king.	•	A map of the Civil Way,
3. The Commonwealth a parenthesis in history-The foreign policy of Cromwell-Reasons for the Restoration-Compare Cromwell with Shor Khan of the Sar decasts	5	
4 The Catholic tendencies of Charles II and James II - Tha I reign of Charles II, an "ere of good is we but had government," - The I diagraceful forsign policy of Charles II. The rise of the Whige and the Tories The Habmas Corpus Asi, the third Greek Charles of English phenics	. 4	
5. The revolution-its course, progress and results at bom a and shroad.		-: Wil.
0. The relation of William and Mary to the Parliement. 'The Beckerellon of Rights' The beginnings of Porty government.	3	The roots at Wil- liem of Orange to London, His descrat- trom James I. Pedigree showing
7. The strengthening of Perty government under Anne. Foreign policy of the reign. The Act of Volon with Scotland.	. 1	the claiments to the Spealed throng.
8. The sociel, intellectual and political advancement of the period. II. The Hancterians		,
I. Tas period of the Whig Supremecy and its causes—The firm establishment of Perty government and the rise of the Cablust—The Whig Schism and the creditable foreign policy of the reign of Ucorge I ander Stenhope and Weipole.	9	Described George I from James I. Named the "15" and
2. England under Walpole—The Ware of the Asstrian Succession and its results—The Seven Years' Wer and the War of American Independence.	. 8	the '45' - Map of the New England colonies af the beginning of the Wer of Independent
8. The British Empire at ciske, 1775-1784. The stages in the American Was of Independence—The rule of Warcen Hastings in Ladus-flome affairs. 4. Pit's passe ministry 1781-1792.	, .	
The Industrial Revolution-Causda, India and the French hevolution.	8	
6. Pit's war ministry. 1703—1801. Revolutioners were up to the Pasne of Amicos—The Irish } Union and its immediate results. 6. The struggle with Napoleon. 1802—1815.		Pien of the betild . of Abouter.
The Peninaular War and its two phease.—The fell of a Napoleon.—Ministeriel changes in England.—The Treaty of Paris. 7. The overtheon of the White and the Tree accordance. 1815.—1	3 627.	Piene of Trelsiget and Weterloa
The story of the British Expension under George IV. 8. The period of Reform 1828-1837.	8	

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S G SEBRAMANIAN

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The downfall of the Torses-The Reform movement sta causes
progress and results-Foreign, Indian and Colonial affairs of the
      The Victorian Era 1837-1901
 111
      1 (a) The rule of the middle classes 1837-1868
                                                                                   Descent of \ ctoria
    The administration of Lord Melbourne-Sir Robert Peel-Aber
                                                                         3
                                                                                 from George 1
deen-The Free Trade movement-Ind a and the Colonies
                                                                                   Map to show the
      (6) The Crimesa Question-The Great Indian Matiny-
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                                                                                chief operations of
Palmereton
                                                                                 the Orimean War
       The Growth of Democracy and Emps e 1865-1901
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     (a) The administration of Gladstone-Beniamin Daracli-
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                                                                                 England e develop-
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Affairs in S Africa.
  (b) The Hume rule movement—The Unionist party
IV The reign of the Peace Maker—The social rel gious political
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economin and colonial development of Fagiard at the beginning of
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the 20th century
                                           1603
                                                      Hampton Court Conference and the Uleter Settle
                         1605 Gan Puwder Plos
                                                      The begroung of England a colonial empire 1607
                                                      Beginning of the Thirty Years War, 1618
                    1621 Impreschment of Breen
                                                     The Petition of Right 16 8
                                           1633
                                                      The Grand Remonstrance 1641
                          1645 Battle of Naseby
                                                      Freentson of Charles I 1649
                       1651 The Navigation Act
                                                      The Restoration 1660
                                           1663
                                                      The Secret Treaty of Dover 1670
                             1673 The Test Act.
                                                      Habous Corpus Act 1679
                                                      The Revolution 1688
            1689 Declaration of Indulgence 1693-
1691 Bank of Fugland founded and The Trien
                                                      National Debt founded, 1693
                                niel Act passed
                                                      The Union with Scoilend 1707
                                                      The Peace of Utretcht 1713
                        1716 The Septenmal Act
                                           1723
                                                      The Methodist Soc ety founded, 1730
                                                      Fall of Walpole, 1742
                                                      Peace of Aix is Chapelle 1748.
                                           1753
                                                      Peace of Parts 1763.
                                                      Declaration of American Independence 1776
                                           1733
                                                      Out break of the French Revolution 1789
                                                     The Peace of Amiens 1802
                                           1813
                                                      The Battle of Waterl a 1815
                                                     Repeal of the Test and the Corporation Acts 1828
                        1832 Reform B il passed
                                                     -Abolition of Slavery, New Factory Act 1833.
                    1835 Prany Postage adopted
                                            184
                                                     Repeal of the Corn Laws 1846
1850 Anstre's an Colonies becoming sell governing
                                           1873
                                                     The Irah Land League 1879
                                                     The Ogen . D amond Jub lee 1897
           1899 Gat break of the S African War
                                                     Formation of the Australian Commonwealth 1901
                                           1993
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MILTON'S EPITAPH TO SHAKESPEARE

in the 1632 Edition of the Plays known as the Second Folio

SIR KOWIN DURNING-LAWREN- E. Bort.

On 24th July I received (through Mr. Frank Borgovoe) from the magnificent New York Public Library, Astor, Lennox and Tilden Foundations, the following letter signed

"Wilberforce Eames":--

" Replying to your latter of July 4th, enquiring about the reading of the fourth incof Milton's Epilaph to Shakespoore on page 5 of the second folio of Shakespears 1632, I would eny that I have exemined the eight copies [of the second folio? belonging to this library, and find the corrected 'Sterre-spointed' in only one of the eight, being in the cory marked by Mr. Lencox & with the imprint The Cotes, for Robert Allot. The seven other copies have the incorrect form 'Starre-spointing.' The leaf containing the corrected line seems to ma to bave been inserted in place of a concelled leaf, as the paper is comewhat thicker. Although the typographical orosment at the beed is the same, the oronweolal initial latters are different."

Theo follows the list of copies of the second folio in the Library, which are in addition to the A copy stready mentioned, pir. t-

۳<u>۱.</u> The. Cotes for Robert Atlet, R

The. Cotes for Robert Aller, a. The, Coten for Robert Allot.

Tho. Cotes for William Aspley. b Tho. Cotes for John Smethwick, E.

Tho, Coten for Richard Houston. . Tho, Cotes for Robert Atlet."

The wonderful New York Public Library scene, therefore, to possess all the known imprint variants of the 1632 second folio of the Shakespeare plays excepting only the one with the Imprint "Tho. Cotes for Richard Meighen,"

in the British Museum there ero Ibres copies only, all of which beer the imprint " Tho. Coles for Robert Allot."

Io my own library, which contains so many special copies of books with engravings printed upside down to order to afford Baconiso rerelations, there is only one copy of the second folio, vis .: - that with the imprint "The Cotes for William A pley." But into this copy has been inserted the special lenf upon thicker paper, as described in that copy in the New York Public Library, in which the correct grammatical form "Starre-ypointed" appears. Experts are satisfied that " This page is avidently on original and contemporary priot, not a reproduction in eny modero sense. . The paper is contemporary."

In the 1623 Edilion of the Shakespeare Plays, which is known as the first folio, no Epitaph appears, for although William Shakespeers of Statford had been deed ecree years, the real anthor, Francis Bacon, wee still slive. Bat Bacon died in 1526, accordingly to the 1831 Edition of the Plays, known as the second folio, we read :

AN EPITAPH ON THE ADMICABLE DEARASTICES POST, W. SHARESPEARE.

What arada my Shakespeare for his honourd bones, The lebour of an Are, in piled stones Or that his hallow'd Reliques should be hid Under a stare-ypointed Pyramid ? Duar Senne of Memory, great Heire of Fama, West needst then such dall witnessa of thy Name! Thou in our wooder and salonishment Hast balls thy salfa a lasting Monument t For whil'et, to th' shame of slow-enderouring Art. They assie numbers flow, and that each part, Hath from the leaves of thy anyeloed Books Those Delphicks Lines with deeps Improssion toch! Then thou our fancy of her sails beceaving, Doet make us Marble with too much conceiving. And so Sepulcer'd in such pomps dost lie, That Rings for such a Tombe would wish to die.

I insert here the whole poem because, so far # I have been chie to accertain, it has never beet correctly printed excepting only in my own copy of the 1632 folio of the Shekespeare Playe " Pran ted by The Cotes for William Aspley" and in the ? copy " Printed by Tho. Cotes for Robert Allot " in the New York Public Library In this Entland, which is usually secribed to Millon, we read -" What neede . . that his hellow'd Reliquee (the Plays) should be hid Under e starre-vpointed pyramid p '

A half-pointed pen means o pen with o half npon its point, a diamond poruted drill means a drill with a diamond open the point, and a "Starre vpointed pyramid" mears must mean, and can only maen " o pyramid with a star upon its point ' (its apex) Bot a pyramid with s etar upon 118 opel 1a a Bescon (proponneed Bacon, "Bacon, great Beacon of the Sate" joet as tea was procounced tay, eea was pronoonced sey, ato ! Then Millon farther tells us "What needst thou each doll witnesse of thy Name" This is cleerly intended to teach us that people ought to have wit enjoyh to perceive that Bacon weathe nema of the real author without the dall witness of a B econ (Bacon) being put upon his works Yes, the Epstaph telle us su the platoest and meet usmistekable manner that Bacon te Shakespeure

But these words of the Epsteph were considered too evident and too revasling by those to whom was allotted the task of preserving Bacon's secreta Accordingly in all or almost all the other manes of the plays which were brought out as 1632 "Starre v pointed pyramid" is changed into "Starra y pointing pyramid" "Starra y point ing" is on sheard word, grammatically im possible, because "y" like the the Germen "ge" indicates the past participle as wa find in volani, volad, vohain'd, etc., etc.

Into this " Booby trap" so carefully prepared for their undereg, all the learned editors of the Shakespeare plays and all the learned editors of Milton's poems as well as Sir Sidney Len in his

" Lafe of Shakespeare ' baye tumbled headlong. For more then a bundred years schoolmasters hase set to their acholars the task of " pointing out" the grammatical blander in Milton's Epiteph, intending that they should "point to" the absordity of " ypointing " which is quite an amposable word. These worthy pedagogues, however, never seem to have thought of declaring that the learned and accurate author of the Enrish could not possibly have made the ridiculous grammaticel blunder which they etterbuted to him bot must bare writien quita correctly " wpointed "

When I have not this metiar before learned grammerians and asked them whather they really believed it possible that the occurate and Jearnad Multon could by a blunder have written 'Starre vocinting,' in avary case they have said, 'No! We doo't! It is impossible! Bat in Elamantary Lassone in Historicel English Grammar" by Rev Rohard Morris, LLD, 1891, on page 168 ws read, "The passiva perticiple to the oldest pariod hed a prefix ge. which after the Norman Congocet was reduced (1, y, a) Milton has yelept-called, He wrongly aids it to a present participle to tefacvompting," And in the Clarandon Press Series " Milton' by R. C Bown, M A. (1873) we read an "Notes on the Naturaly Ode" vol 1, page 258, " wchain'd " " Here y is the prefix to the past participle, the ge of Aprilo Saxon and modern German and the i to Old English, threat, etr It is wrongly used by Milton to the lines on Shakaspeare, heing there prefited to a present participle (Lathom)"

Why had not these worthy men asuse enough to perceive that " S arre vocating" could not have been an accidental blonder, but must have been purposefully written,

The evidance appplied by Milton's Epitanh is of each supressors value and importance and to so little knows that I will not now touch open any other metter except to refer to the opening words of "Love" Laboor's Lost," which show that the mighty cottor of the Playe was not, as the Stratfordianse frequently sweet, indifferent to the parametra szishnoe of his works, but folly realized that they were immortal. The Epitaph sacribed to Militae in facts almost repeats the words with which the Play of "Lose"s Labour's Low!" (the first to which the owne of W. Shakapeare was etisched) commesces, which are as Collows:—

"Lat Fum, that all hnot after lo thair lives,
Live registed upon our braces Tombes.
And then gazes as in the digrame of death:
When spight of coronous davaoring Time,
Th' moderner of this present breath may buy:
That hooper with the rate that has buy:
And make no thays of all cleanting."

BACON! Then "world's wonder!" Deere Sence of Memorie, great Hoire of Fame, What needs Then such dill witnesse of thy Nuse." as "the thy hellow'd Reliques should be hid onder a starry-prointed Pransid" (6 Bescon, 16 Beson), to tell os that thy hellow'd Reliques, the immortal Plays known as Shakespareva, was written, not by "the Householdes of S'retford!" but by THEE!

th Caetron House Tracace, London, England

INTERCATION OF FRENCH AND ENGLISH LITERATURE

Ste Stuyer Like on THEIR MUTUAL BELLUENCE.

Sir Sidney Lee delivered the last of a coorse of four lectores of "The Literary Relations of England and France" to the Oxford sammer meeting of University Estancior Stadents at the Examination Sobools, Oxford, recently.

Sir Sidoey cited opinious of Voltaire and Waltar Pater to the affect that greek Rierature, collectively form a single separas of territory, in which as critical inspection the dividing lines of nationality loss much of their substance. The classical elements stood to eli modero European

literatures to much the same relation as oxygen to the composition of water. From early times to the 18th century England's literary debt to France was nontinoonely large. During the 18th and early 19th centories France reversed the process by Isyying immeose loans on Eogland. The present theme well illustrated the reciprocal processes at work in literary davelopment. The locidity and fidelity to fact of the French mind had always fitted France for the role of interpreter and tutor to other untions, not meraly of her own coltors and ideas, but of the culture and ldess which she sheorbed from uthers. The Normen corquerors made Freuch the language of England's raling classes for more then two centuries, during which English as a literary instrument was threatened with aximotion. When, to the 13th and 14th centuries, the literary one of English revived its vocabulary bed ebsorbed French verbs, mooce, and objectives to a retio of nearly two to our. English literature of the 13th and early 14th canturies consisted of little besides translation of chancons degente of Freech metricel romans. Freech proceedy, with ite eyllable regelerity and its rbyme, replaced the old English elliterative shythms. The derice of postic ellegory, which the " Romac de la Rom perfected, inspired a long avecassion of English poems. Chancer, the first English poet of meditpated smioence, was trained in the French pos school.

The new culture of the European Realists which was born in 11ely, blussomed calife France than in England. The newly discrete Grave Minarches France than in England and State of the Social Beautier of the Social Realists compared with the wide diffusion of Froe intellectual energy. Through a great part of contary England and France were a speec. Tarsaty of Troyes, signad on April 12, 1564, a flay before Shakespeare's birth, long govern the palicial relations of the two contriet. Jone, 1864, Roussed, the poetic ladder of St French Reusiasson, welcomed, in versals of St French Reusiasson, welcomed, in versals of

Willom Cerl, the English Prime Ministor, the arrival of the Enteste Corditle. The homanist movement, which the Oxford abelors, Colet, Lunacre, and more intusted at the end of the 15th centery, mind more intusted at the end of the 15th centery, mind no immediate impression in Eiglish literatore, More's Utepita was written in Latin and wan a contribution to Engepean rather than to the Automal Literatore. No edition was published in English for the first sentency and a boil of, its cristence, the first translation was into Franch. Caston, ike all early Fugish princises, chieff deal with translations from French prose

POSTEY AND THE RENAMESTANCE.

The preparation of the Renewannee did not reach Franch poetry till the 16th ecotory was well advanced The corliest Tudor poets sought etimalog to the crowd of French * thetoriqueura" -rhetorical posts in whom the old medieral tradition was only just troped with the new homanism Alexander Bareley translated tha Franch allegory " Le Chaissa de Labour." John Skalaton borrowed from Franca his short restro of four of sie svilables, Stephan Howen adopted a French allegory in his " Pastima of Plessors " In the next generation Sorrey and Wyatt anoght direction from Petrarch But from Marot, there chief French contemporary, they took many metrical binta. Alamanni, an Italian poet, who was a refugea to Puris, tospired Wyatt's astures and Sorrey's organal experiments in English blank verse Spenser subsequently accepted guidance from Marot in writing his "Shephard's Calaudar"

To the foor graat Franch pross writer of tha 10th century, Rabelaus, Calvin, Amyot, and Muntangoe, Flatsbeham writera were onder varied obligations. Calvin's doctional influences on the legious reform of Fogland was the first cell in hierary power on morb as of bia theological arthors. Plotarch's "Lures" were only known to the limbableman in a Pogland bereinen of Amyot's splendid French red daving and from that version Shakespeare betrowed moch. Few Flatsbeham realized them appritical knowledge with Rabelaus

but his Eiseabutben disciple, Nash, caught his accept. Monlargne, the inventor of the essay. faccinated the Elizabethan intellect. The voice of the Pleiade caught the Elizabethan ear. Spenser began his career with translations of annuata by Dn Bellay. The frequent cornerdences between idea and expression to Elizabethan and contemporary French putry prove on inquiry to be direct debts to the French on the part of the Elizabethana although with the process of borrowing went abundant exercise of creative power Shakespaare employed much of tha Ple ada's smagery, while be lurged it to a new purpose In Henry V by shows facility in writone French and he crafts on his Looksh alse where many I reach words, like goods (i.e. gontles drops) as Macbeth s famous " goots of blood " Numerous Elizabethan coonsis were translated or adapted from the French. Soma Ligsbothan sonucts and propenous when they are folly analysed are found to be mosaics of Freech and italian originals

The Hogoscot movement in France, despite Calvar's filtheral antagonem to secolar culture, prompted mech angusal traviants of philosophy and buttery. The Hogosupett, morrorers, first turned postry into sacred chancels. Do Barta, the other Hogosup toot, peened a long scriptoral epos which excited immons anotherisam in Protestant England. English tusosistions of Dn Bartas's wank modified the secred postry of Furtheriam Fegland and exceted son a it flocuse on the roothful Militon.

FRANCE AND ELIZABEITHAN BRANA.

In Elizabethan deanns French influence provad only a subsidiery force Fagl in mystery, moral sty, and interiod followed lines which Frence had marked out France belped El zicheho drum an its road. Bitteen the cleanest diama of the French Reraissances and the full finding I riskthan drums the identify of theme and their disconcess of form canneasity arrest d the attention. A French trapelly of Rowns and Justimes sets

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in Paris e dozan years before Shaksspeare wrote bis play. Despite the breach with the statuseque classical couvernion, Eluxabathan drama cover coased to take direction is point of topic from Prench goides. The French domination of English literature from the Restoration to Queen Anne's reign, which was often reckoned an unpracedated statuse of Dogland's literary devalpment, we only a new link to a long chain of progress. The marrisgs of Charles 1 in 1625 with the French Princes Herrittal Mara reiforced the old literary associations. The naw school of harold Iront romance of which Mille de Scodery was the mistre hed as mony English readers as that of Dames or Victor Ingo later.

With the eccession of Charles II, Eugland foll ander the full sway of that glorious classic ere of French literature of which Recine, Muliere, La Fonteine, Bosenet, and Boilean were the ablefielns. Dryden, despite his prigioel genine, fell ander the spell. An ettempt was made to transpose Elieabethen tragedy into the new French key. No English comic writer of the epoch failed to trenslate one or other of Moliere's comedies. The theory end practice of French correctness, in poetry were finally expounded by Boilezo who became the literary dictator of Europe, Pope tilamphantly chempioned Boilean's doctrine. Wall might M. Pagnet arga Popa's right to burislon the Pantheon, After Popo there slowly came into being in England the great romantic school of Feglish poetry, and elthough French taste still had many Roglish disciples, French luffcence ateadily declined.

Manuchile the acone changed. Feauce discorrent lengths literature. Every matterpiece of 60 Queen Anna age, the Syctology, Religion Orano, Orditor's Travels, become French classics to I reach iransistions. Voltairs planted English keas deep in French acil. He staget his fellowcountrymen the significance of Shakaspaare's work, shhough at the end of this long lish he, for a fit of justices, stated Shakaspaare as am

inspired everge. The scientific speculation of Breeze, Hobbes, Locke, and Newton fereinsted the French mind. Ronasan's thought was mortored to English literator—chiefly no Locke and Richardson Diddrot ranked the English movelist with Homes and Sophodes. Anglemenie spread to French nosisty, and perfect harmony of centom and ideas long pravailed believe the two constries. The Revolutionary War did not destroy French respect for English history sentiment. The 10th content promatic movement of Obstavebricad, Lamantine, and the rest owed much to Yoong's Night Thoughts, to Onion, to Byron, Sketspeare, and filt Waller Soilt.

With the decay in Frence of idealism and romanticiam, and the progress of realism or neteralism. English influence on French literatare diminished. Tei nover before bes English literature been critically etodied by Feench echolers with the thoroughness which disting viahes the present generation. T his movement to France shows daily aigns of expension. Some recent English fiction emulates French impreseionism. The English theatre bannever refused e welcome to the wit of French comedy or facer. England should always he grateful in France for its earlier lessons in lucid expression and in metrical facility. The Entente Cordiale is rooted in the bistory of the two constrict literature.

THE VALUE OF MUSIC IN EDUCATION.

"The man that has no music in himself.
Not is not moved with concord of sweet sounds.
Is fit for treasons, strategens and spoke.
The motions of his spirit are dult as nights
And bis affections dark as Erebus
Let no such man be trusted."

SHARREPELPE.

More is a gentle pastime. It gives pleasure to the agent of music as well as to those that are gathered to hear the awest melody. (It in other words "It blesseth him that gives and him that tokes"

It gives profit to the musician with pleasure It is a bealthy exercise and offers healthy recrea tion to those that follow the morician Even a serpent is bound down by the peerless charms of music. The educational authorities in India have not done much to encourage the study of music smong the students ft is generally considered as an agency for providing the musician with the means of livelihood. Mosso is really an art Whether with s selfish motivo or a selfiesa patriot ism, journelists, poblic speakers and professional musicions strongly advocate the system of ampart ing music to students in schools and awarding prizes to them for their efficiency Much of pur time is lost in the futile discussion relating to the art and somone of music Practical arrangements, without frothy rhetoric, should be made by andiriduals and corporate bodies to advance the cause of mnesc and an humble prayer should be made to the ruling anthorities to patronico the study of music Individual activities and the liberal support of Government would go a great way towards the realisation of the musical millennium

Among the Mahammedan Emperor Abbar the Great was a staneoh patron of muse. He send orders to bis officers to the effect that he should hear the sweet muses of the morning in his palace before day bests Abul Fari given his kees an erggenated compliment by writing. "His send haparty possessed such a knowledge of the science of musio so trained musicians did not not necessity."

It is said that European music found favour lo the coort of Albar The soothing influence of music is localculable. It makes had children good and a sorrow stricken man fields solace in it. Music teaches patience and kiedness

A TOACHER

EDUCATION IN THE MAGAZINES

Second Language in Schools and Colleges

Prof k. R. Ramenaths Aiyer delivered a very interesting fecture on The Second Language to Schools and Colleges in the Kellett Hall, Tripli case, recently, before a lorge audience when the Hos blo Mr. T. V. Sesbagur Aiyer presided, to the cores of which he caid.

If for the greater part of the people there chould be a thorough acquisition of a single language of the people and if it should contain all the neces eary reformation that would make it easy for them to be abreast of the progress of the coneirs. that woold be the engine way of equipping thampelves for their life career For the majority of the people s therough study of a single language wee all that was necessary and all that was possible The lowest strata of the cultured people must consist of those who were well equip ped in the knowledge that could be inruished them by the literature Every man must have ele meetary education in his mother tongue, and must have in the lower stages a reasonable and com pleto study of the mother tongue and the litera ture in the mother tongue There wes no quee tion eboet the second longuage so fer as the olementary echool was concareed. That question might come in at a higher stage. Naturally tha secoed language must be the Eoglish language. The first language everywhere had been the mother tongan In India English was the first laeguage end the mother toogna of the people was streggling to be the second language. That negatoral position of the mother tongue was due to the importance attached to the cultivation of

English
In the secondary stage of instruction slee there meet he due coluration of the mother tongue in course of time the forther endoy of the languages of India to the High School course must be carried on to height that would be at least equal to the kind of proficesory the etcebeno in Dropsees countries had to their own vernacular languages (Foglish German, Irecot). In High Schools Indian students should be familiar with the heat works as Tamil Telegra, or any of the vertexoular languages, as Languages, and nederation S v. Walter Scott's works and or and of the vertexoular languages, and and nederation S v. Walter Scott's works and order than the second of the control of the second of the

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time devoted to recreasing inagenges and the time devoted to their subjects like history and geography was rastly disproportionate. That kind of actrondinary daproportion might be refereable, and the strength of the streng

Supposing the young meanf High Schools in lodis attained the same proficiency in their vernscolars as the London, Paris or German Matricolates had in their vernaculars (English, French or German), would it be necessary to have the vernaculars brought up in the University at all? Would not the provision of an alternative course in the University fairly meet all the demands of University culture then ? If that ambition wee realized, he would certainly he for leaving the University to provide for an alternative nauree in order not to compel students purening bigher etudies to show forther progress in verusenlars. But the actual position at present was different, He was for having something of the veruscular studies forther carried on to the University conres beesues young men of India had not studied their vernocalers up to a cofficiently high standard. Therefore the next question was how best they could promote the study of the vernacolars without dislocating the existing arrangements. He seid so, because there were very strong sepporters of the existing arrangements whose reverence for their couse wes so great as Burke's reverence for the British constitution, Bearing that io mind, how to soggest an alteration in the University conres that would least dislocate the present arrangements. It was conceded even by the stalwarts on the other side like Ray, Mr. Macphail that the only possible way of writing composition was by writing literature, and that a man must have read fairly widely and acquired a knowledge of grammar formally or informally to write good composition. The sinudard of composition in the college classes wes low. If a knowledge of grammar was also expected, they must have en organised course of studies in vernacular literature in the High Schools and Colleges. The course of instruction to the High School clarses must be perfectly organised. With regard to the stedy of the pondetailed books prescribed for essay subjects in the Intermediate class there must not be env marmor, if the University should prescribe from time to time a onmber of books to be studied by

longs with a little help from the class teacher. There was agood deal of modern literature in vernearies Imageagra for that porpose, which should only ag the recognition of the University. If they had hooks of the kind for two years more into University course, the students implify always the possibly deepen their interest in verneafar studies. When they came up to B. A. class they might be enposed to have that equipment in verneacelar samages expected of them generally.

In she High School there must be a compuleary study of the mother-tougns and if any parent wes eager to have his son educated in Sanskrit, extra time might be devoted to that stedy or some other special provision must be made. He was for keeping the present arrangements under which students might take up verescular compo-cition or Senekrit tremslation to the University course. He would aven go a little further and beve a provision for translation in foreign lango. ages like French or German so as to enable young men whose mother-tongue was Malaysiam nr Caoarere in which the literators was not of the same high level of culture as in Temiler Telaga, for the purpose of further stodies. He would therefore say that to make the vernacolar composition a resi test of the proficiency of a young man in his mother tongue the themes for ensaye must be taken out of some one or other of the books. There must also be translation from English to veroacolar. To revies the regulations in the manner suggested on Committee was necessary. If that soggestion was adopted, that would go a great way towards the improvement In the atudy of vernacolare. The etyle of compositine ought to be the atyle of the cultored class. whn wave fully awars of the literary traditions of a language and entitled to express so opinion on the ctyle. There should be no violent brest. lag swey from the literary traditione. The should sim at using the language of the cultured clear but not of the pedantic kind.

The advantages of the students of the present generation.

A public mesting westered on the 3rd incf. if Medium College Hall, more the expected the Medium College Hall, more Society when Mr. I. Smenivans, Parp. Principal, Illian College Timescally, previous, The Horbie Mr. V.S. Smenivans Ostsirie delivered an addression "Read-one support of the Medium Properties of students support on the Properties of students support on the Properties of students support on the Medium Properties of the Medium Prope

The Cheirman introduced the lecturer in a ehort epeech and the Houble Mr V S Sreems vasa Sastrier delivered his interesting address, in the course of which he said that he greatly ap precisted the enormous change that had taken place to the conditions of the echool, since per sons of his age were at school. He gave a vivid description of the kind of hoesee in which they were taught, the kind of books they studied, the methods employed by the meeters to administer just co to those who had done wrong or were considered to have done wrong the kind of teachers under whom they learnt their lessons and the kind of popule they themselves were when they were echool boys When he thought these things now and contemplated similar c reometences to day, it appeared to him, be enid, that there had been a complete revolution in all these respects. The young sindents of to day enjuyed great many opportunities which were denied to those of his days and their positions was now very much hettered An admirable change had taken place in the matter of echool beridings In those days echools were conducted even under comebeds but now they were held in good horldings beilt quite in second with the cheracter of education the popula received there in their thanks were due to the Government for the liberal grants which they were yearly providing for the perpose. The books which the students now studied had greatly improved, they contained pictorial illustrations which were enre belos for the ever grasp of the lessone and they were written in interesting style affording veriety of reeding metter Agein in the new methods of learning geography and studying ecience by meens of practical experiments the present day students were considerable better off Great interest was being evinced now a days by students on the ert of drawing which those of thirty years ago knew nothing about In those days othletice or physical college receive ! little or no attention but it now played a large part in the echool work After comparing the discipline exercised by the teachers over the pupils in those days with that exercised by the teachers now-e daye be dwelt in detait on the character and maneers of the stedents. If they took the qualities of love of truth, Industry perseverance conrege, helpfalness to those who need help and charity as cardinal virtues, he said it could not he sent that present day young nen were better than the men of 30 years ago in proportion to the external advantages and opporturation which they enjoyed He concluded by exhorting the jump men to take advantage of the better opportunities that were now efforded to them by edecation, so

that they might form out to be better citizene than those of the previous generation.

Vernaculars in Schools and Colleges

A public meeting was held eader the auspices of the Teachers Association Medgra, on the 4th inatent with Mr A Rajereme Iyer, Principal, Madara College, in the chair, when the Houble Mr V S Sreemyasa Sestmar delivered a lecture on ' Vernaculara to Schools and Collegee before a crowded audience The Houble Mr Sreenivees Sastra in the coorse of his instructive speech said that one consideration should be borne in mind by all su desling with the qu stion of versionalars. Wien they talked of veroscolare in this Prest deucy there was upt to aries some confusion between Sanskr t and the vernecolers and what remarks m ght apply to proper force to the verne. culers were transferred to Sanskrit This confueron, he eatd had justification The vereeculere of South Iodia whatever independence they claimed in respect of syntax, grammar and original metter, bad to depend to a very large extent for their speniestson on Saoskrit Hence those who included Sametrit when they telked of verna cuters might well be exceed. He then explained the position of vernace are to the present curriculum of sindies in the Medres University as compared with thei occupied by them under the old regulations and raid that Sacakrit was in a more edvantageous position theo the vernaculars One thing that atrack him wee the ergument edwanced in certain quarters that enflicient was being done for the stedy of vernacoless that made it compulsory for any candidate in the Intermediate to study verescolar composition or translation from a classical lenguage. It was quite powable for the medeute to obtalo 40 per cent of the number of marks le a paper on vernacular composition or translation with the expenditure of a slight effort on his part bet at could not be pretended that for the development of a good style in those languages such as would facilitate the essumption of foreign ideas and know edge through them, any adequate provision had been made for them in the corriculum of studies As a matter of fact no good prose or poetry in verpaculars was taught to the students excepte few stray oosels rewspaper and magazino articles rust to coable them to score the required number of marks to pass the examination He then refuted the argements of those who decreed the system of enforcing on the stedents the stedy of vernaculars and pointed out that the managers of matitutione did not pay particular ettention to the atudy of these languages, bad not essigned a

proper place in the subjects of study in the schools, and had not allowed them the same measure of respect which they accorded to other enhiects. The remedy for this state of things was not to knock down the vernaculars altogether from the corriculum but to suggest ways and means for their proper study. People who would pay particular attendation to teach these applieds should be appointed and he said there were everlable e number of gradueles and Mastors of Aris who would be prepared to pursue with a-el not merely in acquiring knowledge of vernsculars for themselves but with great pleasure impart each knowledge to the learner in schools and colleges. How could they call a man folly educated, he seked, if he had not been aware of the rich treasures that his own language and literature could give bim. Though it wen contended that Temil had not good literature, tho mers poverty of literature should be the reason why it should receive special attention at the bands of the University for the creation and improvement of that literature. He slee said that the same facilities allowed for the sinds of vernamelar languages in other provinces were not sllowed in this Presidency. Speaking on the grouping of subjects he said that if a caudidate desired to take up Tamil or Telugu in the B.A course he had to study in all three lacguages including Sanskrit and English but be could not take up mathematics or ecience which were of great practical velue in these times. He then went on to say that provision had not been made in the colleges at Madras for the sludy of verpaculare even as they at present stood, and pointed out the necessity for making provision for the same. I o conclusion be said that though the verusculars of the South were not given a bigher place in the corriculum of sludies in the University let it not be said that they did not deserve such a place. He was of opinion that they should be given a compulsory sepect in the intermediate examination and thereafter optional and if that was not fessible he would even accept as on ulternative to here text-books prescribed for the atudy of vernscalar composition or translation in the Intermediate.

How to improve the Tamil Language.

A public meeting was held recently at the Hindu Righ School, Triplicane, when Mr. P. Sambands Modalar, Az., L.H. Hijb Cont Vakil, dativered a lecture on "How to improve the Tentil lengaage" with the How'ble Mr. Justice Sadavira Ajyar in the chair. The taschers of the Hinde High School and of other schools who take deep School and of other schools who take deep interest in the promotion of the Temil language were present in large numbers. Mahamahopadhyays Pandit Sweminstha Aiyar honoured aba occasion with his presence. There was a large gathering of students. The whole proceedings were in Temil.

The lecturer began by saying that the Tamil language had been in existence two thousand years ago. It was at its genith in the days of Chers, Chole and Pandis. It was not only the lenguage of the country but also the lenguage of the raters. Poets and authors were ancouraged by kings in succent days. They had manyams and had no carea for their livelihood and comequestly could devote their whole time to the atody of literature and writing literary works. Hance rare and valuable works came to be written in those days. When the encient kingdoms of Chere, Chola and Pandie were overran by the Maherattas sod others. Tamil lost the patronage of kinge. However, poetical and other works continued to be written by mon who wrote such works for cerning their livelihood, if not for the becefit of the people and the promotion of the leoguage. To prevent decay of the language, the University made Temil as well as other vernecular lengueges, cumpulsory in the curti-colum of studies. Even when Temil was a compoleory subject, the knowledge of graduatee in Temil wee meagre. In the present University curriculum there were no provision for Tami-Temil could well be imagined.

Temil could be improved in verious ways. Old works in Temil written on cadjan leaves, etc. might be collected and published, as had been done by Mahamahopadhyaya Pandit Swaminatha Aiyar in respect of Manimekhala, Jirachintenest and several other works. Free libraries about be established in every nook and corner of the Presidency and Matadhipathia, some of whom bed excellent works in their possession, should help in forming and libraries. The University should restors Temil to its former place is the curriculum of studies. Text-books in easy style on moralisy and dherma should be written by great men end should be taught in classes Drames, novals and atories in easy and slegant style should be written for teaching morals to men and women. Books written in foreign languages must be translated to Tamil. Foreign words might be introduced into the language to express new ideas nr words and thay might be coined to exprese the came ideas, It was a mistake to cappose that English would become the universat language for the whole of India and there was no necessity to take cere of Temil Tamil bad antitred after accessive foreige invisions and so meny vicesticdes and it would never die nit, ootil all the Hindne of the South became converts and adopted foreigo customa, habits mempers and language

A University's Objects

A writer in the Engol Educational Journal having advocated that Universities should be made stepping-atoms to commerce rather than to the professions the opin one of several well known man were joyited, and Dr. Rash Bebary Ghose whose anne has here on everyhedy's lip in consection with his munificent distinct for College of Escoce expressed himself as

Meotel cultors, in my opinion, abould be the chiel and of University training Ido not ear that the University should not teach law or medicioe or cogiocering but this ought not le be the principal aim of a University course A liberal education does not sodeed teach a men the pecolier bostoess of any celling but it fits him, in the words of a dis-tinguished writer, to perform justly, skilfolly and megoanimooely all the offices, both private and public, of peace and wer ' As Cardinal Newmen save e coltivated totellect briogs with it a power and a grace to every occupation which it undertakes, sod enables us to he more uselel cit zone. There is a doty we owe to hemen society as epsh, to the State to which we belong, to the aphere se which we move to the sodies duals towards whom we are varietsly related. and where we appressively encounter to life, and a liberal education which is the proper fenction ol e University, il it religes the foremost pisce to prolessional interests, does but postpope them to the formation of the citizen

I should therefore make a coorse of general culture absolutely computery me all the audents of the Unversity. I attach the greatest importance to it because I hold that asect culture would be the secondard introduction to a profess noosil straining, and I strongly deprecate the modern iendecoy of converting a University into a place where paople should be taught only how to earn their bried

"To rear op moda with sepirations and laculties above the herd," says John Stoart Mill, "capable of leading on their countrymen in greater achievamenta in virtue intelligence, and social well heing, to do thus, and knames so in educate the lessured classes of the commonity generally, that they may participate as lar as possible in the nosities of these septices specially seems of the proposal possible in these septices are not seem on their edge. These are purposes required institutions of education placed above dependence on the immediate plessure of that very multiple whom they are des good to distrike. These are made and great in their disprise, profession of the proposition of the proposition

In my opinion the University should be open to men of all castca and erects. But its ecope should be limited to the control and guidence of higher education only

The provision for research work to Indian Universities at prescei is not at all adequat 12 am of opinion that the higher academic degrees should be conferred only on those who have sooms original research work I would should examinations for these degrees, and make research work the only qualifying test for all hugher endowne distinctions.

I would have both eporte end gymnestica In India, they should be orgenised by the Univereity authorises. I should make either aports or gymnestics compulsory on all stodents of the University.

I have no faith in moral tert books. Cultore, however, in its widest sense, includes moral training. The personelity of the teachers and the tone set by the older stodants are also important factors to the lormet on of character.

In my opition, religion should have no place to the currisolom of the Indian Universities, I mean, Universities that ere minimated by the Government But religion may be taught in Universities looseded by a certain act or a cless, e.g., the proposed Hindo sod Mahomedan Universities

I approve el e residantial University ol the type of Oxford and Cambridges. And the reason as that un these seats of tenency the tree ideal of a University la xesionaly upbeld, and they have produced and do still produce man who have that power all commend which is bore of true culture and pectricing unight.

Technical Education in India.

His I scellancy the Governor of Bombay came epecially from Poons to Bombay on the 5th costant to order to be present at the jubbee celebrations of the 1 actoria Jobiles Technical Institute.

when he gave un intressting address on technical education :-

When we consider that in every industrial country-you may take Germany, America or England-they are turning out young men avery year fully qualified to take important posts, the competition must be keen, but I believe that you will be equal to it. I have heard that the Indian young man hus a disinclination for, and thraka it rather derogatory to do, manual labour; he is distuctioned to take his coat off and really put his beck into hard manual work I am dolighted to say from what I have ecan this afternoon that I em able flatly to contradict that Whether there was a little extra energy put into it on account of the presence of His Excellency I am out very clear. The next time I come I shall come to some diegnice and see how things ectually are. It is perfectly true that competition is keen. but I do ask you not to be afraid of it. I want you to go forward with high courage and with embition. And to tell you what I mean by high courage I will tell you e little story. I was going round enother form of technical college, the Agriculturel College at Poone, and my friend, Dr. Harold Mann, showed me the most admirable eystem under which they worked. At the end of my visit I said to bim, Howeve the students doing P" Dr. Mann replied, 'They are doing very well and wark ceplially, but when they come to the end of their term and when they have got their degree and should feel competent to go out and lake up a job, and when I have six or seven jobs ready to give them, they say, 'No, I don't want that, I want Government service.

Now I want to easy this perfectly sincerely to you. I think that abows a want of coorage and a went of ambition, which I regret extremely and which I hope I shall never hear of again. I want you to take your opportunities with both hande; I want you to take every chance which is offered to you with high courage, the high courage of the men who has acquired practical knowledge of hie profession, as that at the end of bla term of work he may feel with estisfaction that he is honunred and respected by his fallow-citizens. It seems to mu that it is a fair thing lor me to say If I ask those young men who are just starting in the world to put their backs into it and to work really hard, so that they may be able to do something useful for their country. And I also think it in fair If they eay in reply, "That ie all very well, but what are you going to do?" I promise that the Government shall assist you, young men, in every possible way that it can. I am going to make an appeal in your behalf to the great

masters of industry, not only in this Presidency. bot throughout Indie, to give you, young men, a chance. I believe that you will be equal to it and I believe that you will show by your character, by your bigh principles, and by your practical knowledge, that you are worthy members of the Victoria Jubileo Technical Institute, and that you will he a credit not only to the Institute, but to that part of the would from which you come. What I have esid I have and from my heart, lot me give this last word to you - it comes from one who has hed a good deal of experience of practical work in his lifethat the man who whether it is in hie work or to be preya pute into bis work or play the very best of his ability generally torns out to be cleas in mied, clean in body, a reefel citizen, and on bonographe gentleman.

(FOREIGN)

Barbarian Standards in Education.

Is the pest the identification of a sportsman with a gentlemen has had great weight in the determination of social and educational values. Guly in comparatively modern times did the sesoclatice of "a scholar end a gentlemen" seem plansible. Even now, prowees of the mind con seldom compete ie glory with prowess of the body. The veloction of schievemeete current fa our public achools persists, though with some abstement, among all costs and conditions of men. But as mentel skill becomes more and more the meens of attaining that financial power which is the modern instrument of personal glory, it rices in social esteam. As manners, address, muntal ability, and knowledge more and more determine personal success, intellectual studies become increasingly reputable. It might eppear at first sight that the highest reputsion would attach to those abilities and studies which bad the highest immediate ability for mosey making. But here the barbarian standard retained a deflecting influence. To posesse money which you have not made atill continues to be fer more honourable than to make money. For movey making, unless it be by loot or gambling, involved addiction to a business life fostend of the life of a leisured gentlemen. So It comes to pase that studies are valord more highly as decoralize accomplishments than es ntilities. A man abo can have afforded to expand long years to acquir, ing skill or knowledge which has to pracinal use, thereby announces most dramatically bit possession, or his father's possession, of an income that enables him to lead the life of an indepen-

dunt gentluman. The scale of culture values to largely directed by this consideration Thus, not only the choice of subjects but their mode of treatment in the adacation of the children of the well to do, is generally speaking in inverse retio to their presumed atility. The pisceur honour accorded to deed languages 18, of course, the most patent example. Great se the merits of Greek and Latin may be for purposes of intellec tusi end emotional truining their predominance is not mainly determined by these morate, but by the traditional repote which has made them the ahosen instruments for a pereda of "asetess colture

Though some ettempt is made in recent times to extract from the teaching of the "classica" the figer qualities of the 'humanities' which they contain, thin has involved a revolt against the " pare scholarship ' which sought to exclude even such refined ntilities, and to confine the study of the classics to a graceful, skilfof hand ling of linguistic forms and a parely experient trestment of the thought and knowledge content. ed to the chosen literators. It is significant that even to-day "cultura primerily continues to imply knowledge of languages and literators so secomplishments, and that, though methemetics end nethral sousness soter more largely unin the academia carriculam, they continue to rank lower an atodies in the admention of our weelthy classes Most convincing in its testimony to the forma tion of intallectual values to the trustment of history and modern Linglish literature Although for ell purposes of culture and atility, it might have been supposed that the study of the thought, ert, and events of our own nation and our own time would be of prime importance virtualty no place is given to these subjects, history and literature, so for as they figure of all, are treated not to relation to the life of to-day, but andead metter. Other subjects of striotly vital nitity, such as physiology and hygiene, psychology and sociology, find no place whetever in the general education of our schools and Universities, occupying a timid portion as "epeciel" aubjects in certain professional courses Pedagogues somstimes pretend that this exclusion of " stitity" tests for the sobjects and the treatment on our eystem of education rests upon sound aducational principles, lo that, ignoring the short range otilities which a commercial or other " practical" training demands they contributs to a deeper and a porer training of the intellectost faculties But hering regard to the part played by tradetion and eccleaustical authority in the establishment of present-day educational systems, at XtX

cannot be admitted that they have made out a serione cass for the appraisement of studies according to their hamen values Probably our higher education, properly tested, would be found to contain a far larger waste of intellectual efficier oy' then our factory system of economic efficiency And this waste is primarily due to the acceptance and survival of burberien standards of collure, amperfectly adjusted to the modern con ditions of life, and chiefly sustained by the desire to employ the mind for decorative and recreative rather than for productive or creative purposes Art, literature and science suffer sumesanrable losses from this mis goveroment of sutellectual life The net result is that the vest majorsty of the consend daughters even of oor wall to do classes grow on with no trained shility to use their intellects or jodgmente freely and effectively, and with no strong desire to attempt to do so Thuy thus remain or become the dapes of ebellow traditions, or equally shellow novelties, under the guien of scientific, philosophic, eco nomic, or political principles which they have neither the scergy of mind or the desire to test, but which they permit to direct their lives and conduct in metters of supreme importance to

themsefves and others As edecation is coming to take a larger place is the organised occupations, and more time, money, and avergy ere claimed to it, the necessity of a re valuation of intellectual values on a sema basis of homeniam becomes more exigent then ever For there is a danger of a new hastard col tore springing up, the product of a blending of the barbariso culture descending by to ritation of the upper classes, with a too parrowly utilitarian standard improvised to convert working class children tuto cheap clarks and shopmen High Schools and local Universities are stready victims to the merulliance between ' cultura and "business' and the treatment of not a few studier, history and economics in particular, is aphyect to novet risks .- Nation.

Indian Students in England

The report of the work et 21, Cromwell Road, 1st Aprel 1912 to Slat Morch 1913, has been published

There has been a substantial progress in the work and arefulness of the house during the year under review,

The number of resides to who have come direct to the bones from India has greatly tocressed, has there are many wlose friends in this country here elresdy made errangements for their aconmodation sissehere. In these cases they frequently visit the horse for edvice after e faw days, and ea silvet to rule to keep in touch with those who remark in Lindau. Opportunities for this work are found in the social sensings half after dinner. These mestings are days, and together with a few English friends, the number present is usually about 200 or 30.

The solution recommodated in the horse sho silved social operatories to which students are invited, end the Indian members bringing to these solution sometimes of 300. The rooms are often lent to either solution for their mestings are often lent to either solution for their mestings are often lent to the solution of the contract for their parties. The outbrings insurant contract the solution of the solution of

Among the other organisations conceeded with Indies acted to, the work of which is carried on ed. 21, forenwell Road, it she Datressed Indian Students' Ald Committee. This Committees are so where a stability of the control of the cause of real duriness which has come before their notice, atthough there have been stability of the control of the cause of real duriness which have considered the control of the cause of real duriness which have considered the control of the cause of real duriness which have considered the control of the cause of real duriness which have considered the control of the cause of real duriness which have control of the cause of the cause

Doring the year a Law Library for the use of Indian students has been formed at 21, Cromwell Road. It had its origin in a bandsome donetion of law books and reports presented by Sir Thomes Raleigh, K.OS I., to which have been added other law books, obtained by purchase or from the India Office, calculated to be penful to the etadante in studying for their examinations and in prosecuting legal ressurches. Suitable tocked book-cases bave been erected in the lecture ball, which hee been furnished as a reading room but in atill available for meatings. The Menaging Committee desire to acknowledge gratufully the assistance they have received from the Secretary of State for India in grante (for the purposes of this Library) of which some portion still remains to he expended. The Library was formally opened on the 13th February 1913; Mr. C. E. Mellet occupied the chair on the occasion end Sir Thomse Releigh addressed the meeting. In concection with this Library two monts have sixedy band half for the discussion of legal cases. The Managing Committee consider this secon opportunities for legal argument should be affected as the second control of the production. They hape to continue the monts of the students meintain as interesting them and attend to refficient combers. For the charge of the Liw Library two Ludian students have been avoided interesting the second control of the strength of the Library two Ludian students have been avoided diffurities.

The faw Library is therefore now no established institution, and represents a substantial elempt to provide the students with fecilities for their leggl studies. Some complaint appraisantly been made of the went of such being the remains for the students with the control of the facilities oow afforded by making fellowed the facilities oow afforded by making fellowed the face Fibrary.

Two tsoons course have been acquired dering the year in Pelbam Place, South Kestington, and as these are hard course they can be ored seen during the wioter. They have already been considerably used, so dit is anticipated that during the ammer they will be very popular.

Efforts base been made to find homes for stadents when they require them, and this has generally been possible.

The total number of different students who bear critical to the boses doright a year, been 24, of whom 124 came straight from John This does not represent the steal number stall, as many students returned frequently and the standard control of th

Teaching and Examining Universities

In connection with the present contentry in our country regation, Taching and Residential Ba. Exempting a subject to the second of the second

They recognised that the highest form of University education was that which students who devoted their whole day to instruction and research, were enabled to receive from University professors, and that the ecaminations they were required to pass should, as far as possible and under proper enfermarde, be based on that matrac tion. But they also recognised, what experienca aboudoutly confirmed, that there were thousands of stadents who, for many reasons could not ubtain that kind of education which was ideally the best, and they rightly regarded at as their duty to watch over the intereste of these fees fortunate etudents, who generally belonged to the poorer cleases, and to take care that, in accord ance with the traditions of the University, some other road to the higher education and to a University degree might be kept open to then To say that the graduates of that University, holding those views, set on examinations rather then education as their ideal was to mistepressot them, and showed that the Commissioners had incorrectly interpreted their views. There was nothing necessarily mocompatible between the tdesla of the two sides of the University, they were sopplemental, and the majorny of the members of the former Commission coocorred in that conclusion. The University was, and most remaio, noigoe, for the conditions of the higher edocation in London were different from those of noy other city, and they could not hope to attain to the perfect ideal soggested in the Commis sioners report by the endeavoor to reconstruct it according to a German or any other model Iodeed, there was nothing to which he took stronger exception then the attempt to germentes oor edocation But when ha saw the vast num ber of eager students who came there annually to receive the reward of their diligence and progress to their cearch after knowledge when he reviewed the lung list of eminent teachere onder whom so many of them had studied, when, too, he recalled the contributions to the advancement of acienco and learning which proceeded from their research department and the names of tha dietinguished men and women now living who looked with pride and extrefection to the University as their Alme Mater, he failed to recognise their University in the fundamentally defective metatation described in the pages of the report-

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THE UNIVERSITIES. MADRAS UNIVERSITY.

Professorahins

The Syndicate of the Madras University is inviting applications for University Professorable per in Indias Economics on Rs. 10000 per cumum and in Indian History and Archaelogy an Rs. 500 per mensem rieing to Rs. 1000 by annual increments of Rs. 40

Proposed Buildings

The Government consider that the University Labrary should be built on the land immediately to the west of the Senate House and between that haitding and the Backinghem Canal The whole of this will be wented for the library and tta apportenances, and places elsewhere will need to be found for the tiffin rooms, motor garage, eto, which now stand there A fresh atte in another place most also be selected for the Revecus Board's Laboratory which was proposed to be hust there Orders on these points and senctioning the alicoation of the above piece of ground to the University will issue to the Revenue Department. The design of the library boufding will be separately considered. Its chief frontage should be to the Walerah Road and room should be felt for extenenous to the porthward The Syndicate is requested to forouth Goveroment with full particulars of the University's paeds in the way of lecture rooms, etc. to be attached to the building

The Grants

The Government of Madeen had forwarded to the Government of lodie, with remarks, the proposale of the Senate of the Madeen University regerding the utilization of the recurring green of Re. 65,000 and the non-recorning green to four falsh given by the Government of India has now reactioned. The Government of India has now reactioned the proposale of this Senate for Re. 65,000 recurring and four lakeh non-recorning and the Director of Poblic Institution has been requested to report shout the transfer of the Government Orientel Mannecripts Library to the University.

BOMBAY UNIVERSITY.

A New Prize.

The following are particulars of the proposal calmitted by Ban Saheh Khimji Convery, J. P., to the University of Bombsy offering to audow a prise as the mamory of the late Goweni Shree

REVIÈW. (Sept. 1913.

Devkinsudan Acharys, the well-known preceptor of the Vaishnavite community:—

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This prize should be named "The Goswemi Shree Dovkingudan Acherya Memoriel" price.

- (2) The emount of the peizn shell be Rs. 100.
- (3) The prize shell be given away every year to the best writer of a thesis on any abject within the province of metaphysical reasonings embodied is "Anubhashya" compiled by Shrimen Vallath scherays.
- (4) The subject of the thesis shell be selected by a Committee appointed by the Syndicate and shell be advartised at least 6 months before the latert time ellowed for the sending in of the papers.
 - (5) The competition shall be open irrespective of ceste and creed end in order that Spockrit Pandits not Limilier with the English inguesse be eble to compete for the prize, option of writing the thesis in English or Securit shall be given to the competitions.
- (6) All papers received from compatitors shall be examined by en exemies nominated by the Syndicets and the caedidate recommended by sech exemicer as deserving of the paiza shall be awarded the above paiza.
- (7) The prize may be given in the form of books os perce, at the eptice of the recipient.
- (6) Shoeld then he no competions is a certain yes for the shore pleas or should the papers received be, is the estimation of the papers received be, is the estimation of the seminer out deserving of our merit the amount of the price payable for that yeer shell be held over and paid to the seccessful competitor in the according year or years together with the according to the price of the price of the price is given.
- (9) Government Prominery Notes of the comment shared its action has right futures at 3 per cent. shall be endoubtering Fitterest at 3 per cent. shall be endoubtering the consulting former of the Bregard of the University of Bunkay for the Comment of the University of Bunkay for the State of the University of Bunkay for the State of the University of Bunkay for the same of the State of the Sta

CALCUTTA UNIVERSITY.

An Appointment.

Professor William Henry Young of Liverpool, hee been appointed Hardings Professor of Mathematics at the Colcotte University.

Exemination Results.

Io the Preliminary Exemination in Law held in June 1913, 7 evadests passed in the First Division and 252 in the Second Division.

TECHNICAL EDUCATION.

Typeweiten Topics.
The Rehington Office at Nashville.

There is a new mesogre for the Remington Type writer Office of Nesbville, T.C. Malon, the former manager, was recountly promoted to the mesographip of the Remington breach at Jacksonville, and Ms. Resell, his successor, is no chuckon at the type writer business.

Rassell began with the Remington in 1892, as a mechanica is their Ubleage office, ander Silies and Silies were filled W. Grandell, and a few months siate the week to Comban as a meshenic mader F.E. Ven Blattie, now a Vice-president of the Ramington, their messager of the Remington office at that grist manager of the Remington office at that grist messager of the mediated fragment of the Mid-band of the method in the grist messager than the control of the Mid-band of the method in the grist message of the size of the

Tan Undersood.

The Underwood typewriter is eret winning.

The Underwood typewriter is ret winning to the beautiful realist and the series of the period to the Macronous period to the period to the Macronous period to the period

In all the contests very high speed records were made, such as here over been obtained in former competitions.

The Macras Shurmand Westers Arcshilled A Correspondent waites—With the policeline of the last iren of the Fart St Goorg Canada which contains the results of the advanced grade in the shorthead examination the certain the complete, and it is therefore time that aborthead public are made ownered the result than the complete, so that the shorthead public are made ownered the result than the complete of the complet

of the Association in the three grades, Elementary Intermediate and Advanced Of the 10 that were sent up for the Elemantary 6 have come out successful with four to the first class. In the Intermediate, 14 heve succeeded ont of 20 sent up, with one in the first class and that one heads the list of successful condidates in Madras In the Advanced two have succeeded out of 13 that eat for the examination Though the Advanced results are somewhat disappointing still it is a matter for congretulation that out of threa enccessful candidates in the Medres centre, two are of the Association

YOUNG MEY & COMMARCIAL UNION

An ordinary meeting of the Young Men's Commercial Union' attached to the Government School of Commerce, Calleot, was held no Wednesdey, the 3rd September 1913 with Mr S S Gopalakrishna Alyar B A LT Lectorer, B G M College Callort in the cheir Mr N M Rame Alyar, Assistant Govern ment School of Commerce, delivered a lecture on ' The Shorthand Alphabet'

After a brief opening speech by the Chairman the minutes of the previous meetings were read and passed Then followed the interesting lecture by Mr. N M Rems Asyar The lecturer divised his discourse into three main divisions, vis a brief account of Sir Isaso Pitmene life, his remarkable personality and his untireng efforts to epresd his new eyetem then in its bahyhood, and how he was ahead of his times , secondly the alphabet proper wherein he dwelt at some length, going into the various requisites of sn ideel siphsbet, and established the superior claims of the photographic alphabet over the English alphabet as being more simple rational and eccentific then the latter and thirdly e few hints and pieces of edvice which specially ap pealed to beginners Then three of the student members of the Union came forward, each with a short speech

The fifth item of the programme the Chairman e concluding speech, was as long as that of the lecturer s and was of an absorbing interest to the endience The Chairmen had quita a large stora of information, the serious part of his speech being tempered with meny a choice piece of humour.

Reviews and Hotices

LITERARY SELECTIONS FROM NEW HAN EDITED BY A SISTER OF NAME DAME (LONGHAMS GREEN

& Co) 1: 6d

This volume of selections from Newman is one of the best books in Longman's Class Books of English Literature A study of Newman e writings is of the atmost velos to every stodent of English etvic and we ere gled to see Mesers Longmans, Green & Co afford a very good opportunity for it by this handy volume of selections. We ere immensely pleased with the passages that have been estected, as all of them have a fine literary flavour and ere emineutly soited to the kindling of e genuina taste for literature in the young student. The volume includes some of the best portione of the Idea of a University and the Historical Sketches The editor has eteored clear of the great temptat on there is in dealing with Newman, of entering into the religious contro versy with which he is inseparably associated The notes are judicious and to the point and we should arge with great pleasure its introduction as a test book for the Intermediata Esemication of nar University

Composition From English Models Parts I & 11 LOITED BY E J KENNY (EDWARD ARYOLD ಹಿರಿಂ) ಕೀಷಿಕೀರಿದೆ

Mr Keany has followed goite a new method in his treatment of the enbject of composition Teking the wall known classification of prose writing in relation to its aim, persuasion, narra tion exposition and description, he gives spect mena under each of them, the epecimens thumestves being followed by a number of valuable exercises There are also selections davoted to dislogue orstory and letter writing I ha study of models, with special attention to the aim they pursue cannot but be productive of very good results, in giving a practical knowledge nf composition

PATRICE GREGORY, BY PERCITAL WREY, MA (LONGHANN GREEN & CO) 2: 6d

Mr Parcivel Wren has encoceded in writing a very antertaining novel in his Father Gregory The prelade to the central story is strikingly emutional and deals with a tragedy of great nathos There are e large number of chapters in the book devoted to a deliceation of a number of undescrable types to Anglo-Indian society It is hoped that the subtor's love of caricature has got the hatter of trath, wherevise the reader will be justified in holding rather a few opinion of Anglo-Indian cocisty as a clear. There is a award moral ideal dominating the story, the field as a clear of the companion of the companion of the the second. We have no doubt the named if prove interesting reading to all acquesisted with the social conditions of Anglo-India.

Wn had to draw attention in nor review of the suther's last volume of fiction, Dew and Milders, to his lamentable went of sympathy with Indian life. The suther's restriction of his themp to Angle India has saved him from that danger in this book, but one could see tracee of it in the only chapter in which Indian cheracters are introduced, at the very beginning of the book, Mr. Wren ought to learn the very desirable lesson of out offering gretoltons insults to Indian feeling, it be expects to flourish se an enthor in this country. It is difficult to see what pleasure be derives in imagining Indiana with an impossible batred of Ecropeans. The B.A. bookingulerk of Kondah, we are told, 'entertained a most bitter betrad of those who bad given him a free (!) advention and then omitted to see him suitably rewarded for accepting it. He does not know "why God made penthers, Pathane and Sahiba," And when he closes his eyes he ' resumes his fevoorite day-dream of wrecking a trein full of Europeans-all gazettad civil ufficiele for preference. We should like to essure Mr. Wren that such monaters of Indian graduates, exist only in his imagination. And the sooner he is disillusioned of such provoking beliefs, the better will it be for himself and his readers,

THE BRITANNIC QUESTION, BY RICHARD JERR, (LORGHAND, GREEN & CO.) is. 6d.

The author, e well known writer on Imperial problems, discusses elaborately in this volume the real meaning of the term Imperialism; and shows how there are various especia of it which sometimes close one snother. There ere imperialists of verious shades-wen who arga forward the ideal of Britannic equality as against those who believe in the necessity of maintaining the secondancy of England. Again we find an oppositing hetween centralisers and entonomists, and between the respective uphalders of the military and aconomic conceptions of the proposed union of the Empire. The place of Indie in the echemes of ra-organization is elso dwalt on at length ; and the incompatibility is well brought out between Moriay's proclaimed perpose of bringing the Government of India more and more under the influence of native opinion; and the policy adopted by the Ministry of tightening the imperial relus over the Victory.

The ideal of Britanoia union has had a wooderfully rapid growth, during the last two does and more specially alone the noison of South Africa. A discussion of the varions phases which this ideal may assume, most here some practical force in absping its fatorr. We commend this book for careful study by all students of British politics.

ELEMENTARY ALGEBRA, Vol. II, BY GODFREY AND SIDDONS (CAMBAIDGE UNIVERSITY PRESS). 34, 6d.

This volume deals with the following topics 1-Logarithma ; Ratio, Proportion, Variation ; Surds and irrational Equations; Progressions; Gradient of a graph, Rate of change, Derived Functions; lotegration. "Limits" and the ideas connected with a converging geometrical series bars been treated with great care, so that a student going through this book cannot carry away incorrect notions of infinity and limits which will have to be got rid of afterwards. The book also provides a gradual and leisoraly approach to the elements of calculus. This subject, vis., the elements of calculus' is considered in this country, as was dum in England sume ten years ago, to be too difficult to bu taken up in the High School nay even in the Intermediate course; whereas one who goes through this bouk, cannot fall to resire how excily and successfully the first notions of calculus can be taught to an average boy of The authors say in the Prelace fifteen ar sixteen that 'Vals. I and II of Elementary Algebra corer se much of the subject on is likely to be learnt by the pupil of everage shillty during a full school comse." This implies that in England, first notions of calculus ere included in an ordinary echool course. How different is the situation here, in Madras, whore even logarithms are considered to be too much for an ordinary student of the secondary school who specialises in Mathematics P

JONES. (MACMILLAN & CO. LID.) 16.64.

⁽b) Examples in Algebea, by H. S. Hall (Mechilles & Co. Ltd.) 2s.

There two books contain merely selections of secreises Irom the respective authors bigger books, viz., "Modern Arithmotic", Part I and "A School

Algebra, Part I' The bigger books are well known as good school books, and teachers, who prefer to give their own oral explantions and to place in the bands of s'edents only a mere book of esercies, will find these osefol as students' books. The books are also princed cheen

GEOMETAY FOR SCHOOLS, VOL. 1-VI, ST BOUR CHARD AND PRESONS. (BILL & SOUR! 4: 63

Valume 1.—V hats been reviewed in a previous issue of this magazine. The book before us centain in addition only Vot VI which desire with solid geometry and place and elevation. The treatment is not in the stereolyped Foeldean ander, but easy and instructive methods of proof are given and the subject itself is developed in a previous control of the productive and the subject is self-subject in a product elevation under the subject in the product elevation under the subject in the product elevation under the subject in the subject is subject in the subject in the subject is subject in the subject in the subject in the subject is subject in the subject in the

TWO BOOKS OY ZOOOFOGRAPRY

- 1 ERRINGORMS AND THEIR ALLIES, BY FRANK E. BERDARD, F. R. S. F. R. S. E., PRO SECTOR OF THE MODIFICAL SOCIETY OF LONGOS, pp. 71+150, WITH 13 ILLUSTRATIONS (CAMBRIDGE UNIVERSITY PRESS 1912) 12
- it THE WARDERING OF ANIMALY, BY HARR GADOW, F R S. LECTURES IN ADVANCED MORPHOLOGY BY THE UNIVERSITY OF CAMBRIDGE, pp. vi + 150 with 17 Mars (Cambridge University Perss 1913), 14.

These books belong to the excellent serves of cheap Mannals of Science and Literature sessed by the Cambridge University Piese, and deaf with the geographical distribution of sounds the first of the Earthworms only and the second of all spinals in geoeral

1. Thus contains a research as it were if the author's great Monograph on the Objecthoots, viewed in the light of recent researches in that group made by himself and by Continental, Americae and Australiae helmanthologists. The hook opens with a clear account of the continental continents of the factors, another of the continents of the factors, and they of the faresternal and aquate Earthworner, and this portion of the work as copounty illustrated with several excellent figures. This is followed by a few chapters on the mode of the other continents of the contine

Parthworms, and on the relation of the external features of these worms to their babits and environment Then a small chapter on the score organs and senses of the Earthworms is followed by chapters on their 'Ranges,' 'the perigrine Earthworms' and the Parthworms of 'Oceanic felands' In these chapters are distroctly shown that Parthworms were all originally aquatic forms. that terrestrial forms originated more or less from these and that some of aquatic worms to existence now, are more or less a resersion as it were to the original type, end we note herein that Mr Beddard has changed his original view that the 'Perichnet a were the most archaic forms' whereas here he holds them to be the most moders forms of the Forthworms Chapter VIII grees an account of the most important harriers f ir the dispersal of Earthworms, and the facilities of their migration to fresh regions. The last chapter of the book deals in a general way, with certain problems in suogeography, as illustrated by the distribution of the various families genera and species of Earthworms, of which, the presence of terrestrial Earthworms in some of the wadely separated islands of the Southern Hemsephere, the hitherto considered 'Oceania' selands throws smmenes light, on the probable non rolcanic origin of these islands, and from the curious relationship existing between the worms sahabiting S America, Africa, Indo Australia and New Zesland, Mr Seddard asserts boldly, in spite of the views of others of the former existence of a wide nortoward extension of the Antarctic continent connecting together all the existing sorgeographical gress, and this land to held by him to be the original home of the Oligochesta Though scientifically accurate, the book could be af use to adeanced stodents of Zonlogy noly A ready referencer in the form of a synopsis showing the classification of the Oligocheta, with the names nf the chief families and genera would have greatly facilitated the quick understanding of the text, and a zoogeographical map or two of the Earthworms would have been a valoable addition to the text

2 Its not possible to do notice to each as extensive subject as the prographical distribution of assumis within the small limits of a pocket book of 180 pages of large type, and Prof. Gadow has to be congratulated on the able way in which he has brought not clearly all the salnot features of such a wast subject in his 'Wanderings of Ammala'. The general plan of the work is as Ammala' and prepared plan of the work is as a graphical distribution, showing the gradual groups and the training of geographical distribution, showing the gradual distribution is the study of geographical distribution.

bution by various zoogeographists, a consideration of the lines along which they worked and the views propounded by them, and Prof. Gadow adopts in the main the 'Scaleter-Wellace' rigions. Chapter II deals with the 'Occological' aindy of animals, a study of the chief homes, and how such homes with their various effects of climate, etc., ioffuence their iohabitants, and the interdependence of soimal and plant life there. Then follow two short chapters one on the needs for aprending, on the modes, means and rates of spreading and tho other on the chief causes that bring shout the rich or ecanty faunas of various localities. Chapter V is on the encient geography of the Earth-tho former configuration of land and water in various periods of the Earth's history. This chapter is well and originally illustrated with a sesies of disgrems and maps indicating the hypothetical configurations of land and water in successive geological epochs. Chapter VI deals with the distribution of a vest number of various groups of solmals in space and time, and being one of the author's specialities attention is strongly directed to the vertebrate fours. The sother bes succeeded to a remarkable degree in his attempt "to trace the enimals back to their original home, to follow their wenderings, successes and failures, and the changes they have undergone by adeptation to new and site:ed environments, and to account for the composition of faunas of various countries and sees." The book is clearly and well written and possesses the ment of being concise and complets, and forms an admirable introduction to Zoogeography and we strongly recommend it to all students of Biology. A geological time-table, a good Index and a bibliography add to the neefalares of the book.

RAGIONAL GEOGRAPHY OF THE WORLD IN TELLOU PART II, ASIA, EUROPE AND BERTISH IELES; PART III, AMERICA, AFRICA, AUSTRALIA, STC. BY M. SITHERMERS, D. A.A. L.T., HEADMETER, VERBREALINGAM HIGH SCHOOL, RELIMBUSPER,

It is a matter for copyrationation, that it oneset the growing demand for georges and the control with the control of many for the control of the control of

able to follow the anthor when he says that "Europe is, in size, the smallest of all the continouts" and that " it is in the midst of the land portion or sorface." A reference to the table given in page 10 of the book itself will show that Australia is the smallest continent. Every school hay will lough at the statement that Europe has the ocean all round (యట్లును కముద్ర ಸಾಬಯಕ ಟಡೆಕ, pago 63 of Part II) It has recently been proved by Dr. Swen Hedio that Tibet is not a plateau. Though the author refers to this great explorer in his book, he has falled to cole his discoveries. The description of the relief of North America is far from satisfactory. The western mountainous area of this continent is known by the rame of Cordilleren area and consists of three distinct moents in rarges. The anthor fails to note that the Pacific ranges are divided ioto the outer and inner ranges. names might have been avoided while the build of the country ought to have been accorately describad by a reference to the orographical map. We looked in vain in the book for the natural divisions or regions of Australia. In speaking of political divisions of this continent there is shedutely ac reference to the " Northern Territory,"

Went of distinct "human element" in the treatment of the sobject is another and festore of the book. It is impossible to interest children if this element is neglected. Again what children in the lower classes went is not the most of datails but the statement of general principles explained by industivo methods. With the translation of technical terms again neither the "modern" school nor the "classical" school would be pleased. The author speaks of trattes at Todaye 275 Br-table of temperators and raisfull hat prefera to front Kom toto (climete) ఎబ్బస్టాలు (explora), జూన్వస్తాక్కరు (manufactore) a words which have passed into correccy in the Talugu language. Trade winds are called # 5" రవస్తు though years ago it was shown that the word frade in "trade-winds" meaus steady of constant and has nothing to do with w 32000 The maps in the book are a disappointment. The pupil can learn nothing from the map of Asia on page 10. Some of the maps have no key to explain the shading (page 133.) The shadies in some of the maps gives ideas different from what the author intended (maps on pages 16s and 165). We mention these things, not with the wisw to smother honest stempt on the partol

indigeonus agencies to bring out better class of text books in vernacular for children in the lower classes of our celools hat in show the more negogat in the work that if they do want to successfully compate with English firms they must bestow more acre in writing the text hooks We with also that writers in Telega will try and avoid the broad final sading common smooth to Telegans as with the Telegans as

Easy Stories from Indian History (Taull and Tsuggy spirious) by E Marsden B a (Mac

BILLER & Co LED) 10 at. & 8 as

Mr Marsden'n English edition of the Easy Stories is a book very popular with acbool children and we are glad that Mesers Mac millan & Co have now brought out Tamil and Telnga editions of this book There are about at tensumorq start Lua scores prominent in Indian History told in very pleasing and attract ive manner. One redeeming feature of these stories is that in the characterization of persons, the author is to a large estent impartial Aurangzeh and Sive ji for example are described in their true colonie Their virtoes are more pointedly described The Tamil edition is far more estisfactory than the Telugn The langu age is very charming and the book does not appear to be a travelation. We are sure that this book will be widely read in the echools, more for the cake of the language than for the hietory costained in the stories The Telega eds tiou resda in some placea more as a translation than an original book. The books are prefusely illustrated and the illustrations are very good We wish the books were issued in two perte

Indian Educational Hotes MADRAS

Training of Teachers—In Jane 1912 Govern meet approved the proposal to fee a saw sarts bottle of students of the lower elementary green and same Government training, the lower elementary green and same of sevent year months from 1st Jane 1912. In a lotter to the Government dated the 26th Jane Studied Board, the Director of Public learization pointed out that the dansard for elementary teachers as account of the large necessary teachers as account of the large necessary teachers. It is not the large necessary teachers are consisted at most which is above proposal was gamented to next which is above proposal was gamented by the same of the large necessary teachers.

become greater year after year. The supply he asid required consequently to be increased. He requested that a similar provision be made with affect from or after the lat July last, in certain Government Training Schools for the training of a forther additional batch of shoot 695 lower elemen tary studeots, and for the admission into the Government training school at Nellore of an extra batch of 40 higher elementary stedests for a course of twenty two months. The Director also strong y anpported a proposal to open a temporary additional training school of the higher slementary grade at Amstanor In their order upon the proposale Generament state that the Government approve the proposale of the Director of Public Instruction-(1) to tra n an extra batch of 695 atadents of the lower elementary, and forty students of the higher ele mentary grade at selected Government training mentations for a period of tweety two months and (2) to open a temporary training school at Amalapur in the Godavari d strict for a similar period to train e gbty students-forty of the higher elementary, and forty of the lower elementary grade They lurther elate that as it will not be possible to begin regular work before the lat September next provision for all months els, Rs 60 374 will be sufficient for the current year. This amount will be enflicient for the current year met from the special Imperial grant of 23 lekhs fer education provided in the Civil Budget Estimate for 1918-14

Strah Tacker College — The ladies of the Seah Tacker College Planetish, and their freede and Tacker College Planetish, and their freede and in front of the College where a long and interesting programme of songs of mile, recisions also, was goose through The Bev E S Cerr of the OMS presided while Mrs Losna kindly distributed the presse which were numerous and busdomer the very first item was a greeting song which was the College College of the College College College of the College College

The Principal Miss Laiford then read the Annual report

The Charman in concluding his remarks thanked Mrs Loons for an kindly distributing the prizes and those gnests who had availed themselves of the apportunity for showing their interest and sympathy with the College by their presence

The interesting and pleasant function came to a close with the singing of the National Anthem

Physical Training Classes —A curcels has been should to the Orrespondents European Schools Madras by Mr J II Melville Inspector of Ecrope as and Training Schools Madras nationaling to them that physical training classes will be beld expectedly for min and finant levelers dily said that tachers should alread at least leveler dily said that tachers about direct dily said that tachers about direct dily said that tachers about a strain dily said that tachers about a strain dily said that tachers are said from hits proposed about provide public The classes will commence as soon as possible after receipt of the parea of those willing

to ettend and will probably continue until the end of March. At the end of the courses practical examination will be beld, at which the candidate's instructional powers will be tested. Certificates will be issued to teachers who have attended the classes regularly and who satisfy the Inspector at the end of the course The instruction will be besed meioly on the sylishus of physical exercise for schools issued by the English Board of Education The Instructor engaged has bad considerable experieuce in training both male and female teachers. No fees will be charged, the object of starting the classes being to enable teachers to receive practicel instruction ou modern lines in this important subject,

The Teachers' Association, Madure -Under the suspices of the above Association, a lecture was delivered by Mr. A Goviodersja Mudeliar, z c. b r . Headmester of the Soursehtra High School, on Wadnesday, the 17th September 1913, at 6 r.u. There was a large attendance of teachers Gwing to the unavoidable ebseuce of the Hon'ble Mr. Srinivaes Sestriat, who wee to have presided on the occasion, M. R. Ry C. Nerayaussami Aljer, e.a., Headmester of the Sethupathi High School, wee

voted to the cheir. Totroduced by the learned Chairman, Mr. Middler delivered his eddress on "The Piscs of B Group subjects in the 8 S. L. G Schome." In the source of his cloqueot eddress Mr. Middler esid that it was e truism that popule of the Sixth Form took no loterest in the study of Indian History and Geography, losemuch se they were not compulsory sobjects noder Group "A" sud that even Headmasters winked of the low marks obtained by their pupils in those sobjects in the class and terminal examinations. Hasdmasters could not be onduly severe with their boys less the latter should seek admission into other schools, and thereby diminish the strength as well as the fee income of their insti-Forther, how could a teacher make bis pupile take interest in a subject when they had swore, as it were, to take no interest in that subject. Mr. Mudelier, therefore, suggested that Indian History and Geography could well be omitted from the time-table of the 6th Form; for, grinding in these subjects from the Fourth class of a primary school to the 5th Form of a High School for a period of aix years should be enough to give a boy a sound knowledge of these subjects tor all practical purposes, and the time thus saved could well be devoted to the teaching of English or any other subjects in the study of which the boys take a genuine interest. A year's further study of Indian History and Geography in the 6th Form could not add much to a pupil's knewledge, especially as under the present 8 B. L. C. scheme the time apent on these subjects was sumply wasted. Moreover, a-ll-interest would induce no pupil in prefer the "B" Group subjects to the "A" Group onee, or to pay at least equal attention to both Ha would certainly devote all his attention to the study of "A" and C" Group subjects, and try to score an many marks se be could at the public examination

in those embjects. Mr. Mudelier elso soggested that the much maligned vernacular could, for reasons pointed out by him, be transferred to the subjects of group " A."

The address nver, there were lively discussion of the ambject by some of the teachers present. The Chairman then made a few ramarks. With a vote of thanks, proposed by the Secretary, to the lecturer and the Chairman, the meeting come to e close at about 7-15 F M.

Pattapur Rajah's College,-The Hon'hle Mr. P. S. Sivaswami Aiyar, ce.t., CIZ, presided et the prize-distribution at the Pittapur Rajah's College. The function began with the reading of the Committee's report on the work of the College in 1912-13 by the Principal and Secretary, Mr. B. Vockstrainan, which showed that there had been a considerable rise in the numbers on the rolls during the year, The locome from fees amounted to Rs. 31,766. total expenditure was about Rs. 44,870 The excess expenditure of a bout Re. 7,000 and Rs. 4,450 invested in haildings were generously provided by the Rajob, the Troates and Manager.

The Precident distributed the prizes to the several etudents and made e speech is the nourse of which be said that the Rajah's College was a pramier institution worthy of location at the headquarters of the district. There was hardly any institution in the Presidency comperable in strength or other respects with this among those meintained by indigenous agency Cocenada owed much to the Rejah, for there wee not a public lustitution which be hed not leid noder deep obligation by his generosity and assistance. Ho had a doobt, whether it was fair to throw all the burden of the (bullegeou the Rujah. Surely, the citizens of Cocanada had to recognize the claims which this castal institution had on their liberality and he was sure they woold dn it if the Bajah would only permit them. The public might institute scholarships to enable atadents to carry on their studies for the degrees, found chairs, afford better accommodation to the increasing number of students and so forth wanted be a wiso generosity on their part to belp students to pursus scientific study or acquire proficiency in any epecial breach of learning. The proficiency in any special branch of learning. The Principal referred to the proposal to exart technical classes as a accordary course in the institution. It was desirable that e'udents should be encouraged to take up such courses of study which would sire them good scope not only for exening a decent livehibood but also for being useful to their country. It would be worth while, if the public, the merchants. the lawyere, and the landlords awarded scholarships and sent atudents to the Bombay College of Commerce, the training in which would be belpful for work in banks and in co-operative credit accreties which were fast apringing up. As regards moral enliurs of students lo this institution he said that etadente had the undoubted advantage of the influence and example of their Principal, Mr. Venkataratnem Naido and the Rajah of Pittapuram,

who was ite Manager and Trustee. He hoped equients of this institution who had so thany advantages of moral and intellectual culture would grow to be good citizens of the world

The Virealingam Public Library, "The Anniversity of the Virealingam Public Library, the breat of its kind in the Telago districts was colorised with great promp to the local Town Haff on the 9th and 10th instants Mr G V Appa Rao BA, Praveta Secretary to the Mishraps of Vanneyaran graced the occasion with their presence Mesers B Kamesewers Res on A, 17, and V V Sarma, MA, L7, read learned and instructive papers on "the Present Conduction of the Thiggs Stage," the "Ascient Hindu Chemistry, Temporitary, The Schick theorythick sweet for Creamy Style.

Sourablita High School — The Masegrap Committee of the Sourablit High School are making reportus efforts to collect funds for the accessor of a new holding to meet the growing occase of the institution. The Building Find now amonats to 18 35,000 and the Committee hope that below the close of the month that collections will recolble of the month of the Committee of the the new conduction of the 18 25,000 as stready a permanent endowment of Es 25,000 as tready a perma-

Cleases in Domestic Economy -The Government of Madras have approved the proposal of the Director of Public Instruction to rent a building at Rs 175 per mensem for two years for the purposa of holding classes to domestic economy, physical and manual training for Enropean Schools The Direc tor has been requested to expedite the nomination for the appointment of Instructor of Physical Training, which is still pending with the Inspector of European and Training Schools As regards the mental establishments proposed for the domestic economy and physical training classes, the Govern ment consider that one peop should suffice for both the classes since they are to be held as the same building and that it will be enough to pay him Bs 8 They accordingly senotion the employment as a temporary measure for a period of two years. of a kitchen boy on Rs 10 per meosem for the demestic economy class and a peon on Rs 8 per measem for both the domestic economy and physical training classes

A Tachtri' Guld in Manlipstam.—A meeting of the teachers in Manlipstam was half an its Noble College Hill noder the presidency of the Rev O From M. a. Frincips I of the College net to 13th materia, for establishing a "Treebers' Gund' The Association in intended to tocicide ell the teachers of the place serving in the yarmos level than the college of the presidency of the place of the place fairly large, considering the state of the water.

The proceedings commenced with the introductory gemerks of the President who dwell upon the need

of anch so Assecration, no order to focus the opinion of the teachers apone the straines educational topics and to better the material prospects and status of the teachers by representations to the Government or other authorities when necessary. There were a number of other speakers who apoke upon the object of the Association. The sum of the Assection of the Association of the Association

The meeting thereupon proceeded to adopt a consisting unand to elect office bearers for the current year. The proposal to affiliate it to the South India Teachers' Chion was pet off to a subsequent meeting. The meeting the conducting the proceedings with sympathy and success.

Perhappen's College Historical Association— Under the suppices of the above Association, the ionapprais address was delivered in the Pachingappe's Hall by Mr. A. Rangaswami Anyangar, RA, RL, with the Hon tie Mr. B. N. Sarma in the chair. The subject of the lecture was the 'Evolution of Council

with the Hondie Mr. B. N. Sarme in the chair. The eabject of the lecture was the 'Evolution of Council Government' in introducing the lacturer said that he was well known to Southern Iodia. Reing

in the newspaper office be must have studied the subject with great cars and deliberation. The lectorer who on rising was enthusiastically cheered, gave a very interesting description of the growth of Conneil Government in the Colonies and is Iodie.

io Iode
With a vote of thanks proposed by Mr K. Ramenoje Cheriar, President of the Historical Association, to the lecturer for his luminous lectures and to
the Chairman for his practical engagestions, the
meeting terminated

The Pendithorei Theyar Temil Library. Salem -The opening reremony of the above Library was colebrated recently in the Salem College Hall with Ray Bahadur T N Straggeram Pillet, in the chair Among those that graced the occasion with their presence were the Hou'ble Mr C Vinsragavachariar, the Hou'ble Mr. B V. Narasimba Aiyar Mr Spencer, A Shutie, the President of the Pandithural Memorial Commettee and several other gentlemen Mr T S Instance Ayer, Secretary of the Committee and Temil Poudit, Salem Cullege, made an elequent epeech in Tamil acknowledging the belp given by several gentlamen both in the form of donation of money and in the shape of gifts of books, appeal-ing to the manificence of the Salem public for a further collection of books The Library at present consists of over 400 volumes including both standard works and light fiterature and is at present lodged in the Selem College for want of a proper secommodation. It is to be buped that the Library will be given a local habitation in the pear future and the public more freely admitted to the foll use of the volumes contained therein.

The Victoria College Hostel.-The Victoria College Hostel constructed at a cost of Re. 32,000 and odd 18 now ready for use and the Principal addressed the Conneil submitting certain schemes for the working of the institution. The Council at its last meeting appointed a Sub Committee comprising Mesers S. K. Ramaswamy Tyev, K. Natesa Tyer, V Raman Mounn and the Chairman to consider the scheme and Mr. Davey, the Principal, was asked to ascist at the Committee's deliberations at an omergent meeting on the 6th instant.

The Chairman announced that as a vessels of the sitting certain vales were drawn up. It was resulv. ed to appoint a Warden, a Deputy Warden, two cooks, two assistant cooks, two Nair servants, one porter, one gardeney, and one scavenger. The Committee fixed the vental of each of the fifty rooms at Rs. 24 a year to be paid in two instalments in the months of Jone and November, The Deputy Wardan's pay was fixed at Rs. 25 per metaem exclusive of free boarding.

Pachatyappa's Hostal -The Government of Madres have as notioned a great not exceeding one-helf of the actual expenditure, or Rs. 93,000 towards the cost of construction of a boatel with subsidiary buildings for the Pechelveppe's College at Chatput. Madras.

Taylor High School, Naraspur-The thirteenth auniversary of the Taylor High School Dehating Society was delebrated in the School Hall on Wednesday, the 17th inst, with M. R. Ry M. Kameswarz Row Pentulu Carn, ma, Inspector of Schools, Second Circle, in the chair. slits of the town including some of the European residents graced the maeting with their pre-sence. The President of the School Committee and Revenue Divisional officer, A. Mc. G. C. Tempos. Esq. I. C. S. who has been taking a very active interest in all that relates to the school sent a tylegram from his camp in circuit to express his vegret at his not being shis to ettend the fruction of the evenlug After a few introductory remarks from the Charman, the Secretary read he amonal report which showed how the Society after a long period of stumber was whipped into activity by the present Headmaster, M. R. Ry. A. Jaya Rama Row Pentulu Garn, s.a., L.T. and how some private gentlemen of the place and the members were evincing great enthusiasm in the work of the Association and coneluded with an appeal to the Taylor High School Committee to give the Society a small annual grant to make it more useful and popular.

M. B. By. S. Krishnamachariar Avl. Ma. al. District Munuiff, Narsapor, then delivered a short. eloquent and impressive address to the endents giving valuable advice. The members then pas upon boards a Telugu drame and a few comi which provoked roppds of laughter. With a vote

of thanks to the Chair, the proceedings were brought to a close.

ROMBAY.

A distinguished educationist -A social gathering of the past and present atadents of the Elphins tone College, was held recently in the College premises. The hell of the building was gaily decoratad. The Hon, Mr. W. H. Shavp, Director of Public Instruction, was among those present.

When Professor Dastur retired after a service of thirty years, for twelve years of which he was connected with the Elphinstone College, it was decided to commemorate his memory in a permanent form. A Committee was formed, funds wern collected, and My. Sereodia, a young artist, who has recently returned from Home was commissioned to execute an oil painting of the Professor. There is still a balance of Rz. 750 with the Committee and when the oum of Rs 1,000 is reached it is proposed to found a prize in Mathematics.

Principal Coveroton, who performed the unvailleg ceremony, paid a warm tribute to the work of Profeasor Dasiur, both as a teacher of Methematics, and as the Registrer of the Bombay University. Principal Covernton said that throughout his career of 30 years as a teacher of Mathamatica, Professor Daetue's work had always been regarded as admirable by his pupils se well as his collesgues. He could not find adequato terms to express his opinion of bie character and work, Professor Daginr bed always thrown bimself into ble work, and be was not only a great mathematican, but an earnest, sympathetic and kied teacher. The portrait of Professor Destur would be bung in the Librery just opposite to that of Sir Pherozeebeb Mehts.

The portrait, which is an excellent work of art, was then unveiled smid loud cheers.

CALCUTTA.

Government and education-The following official communican has been issued :-There appears to he some misapprehension as to the appointment of an additional Secretary in the Bengal Secretariat. The appointment of an additional Secretary to Government is not connected in any way with education, nor does it mark any change in the policy of Government in regard to education. This appointment is primarily connected with Ravenna subjects and is the direct result of the revision of the constitution of the Board of Revenue which has been added to the board of Revenue which has been reduced from two Members with two Secretaries in one Member with one Secretary and of the consequent transfer to the Bengal Secretarist of a considerable portion of revenue work now imposed on the Board of Revenue by etetate. Whereas one Secretary has hitherto heen in charge of the Revenue and General Departments.

it has now heen found necessary to have a Secretary for the Revenue Department alone. The consequent

re-distribution of the departments of the Secre-

tariat other than the Public Works Department, amongst four Secretaries instead of thren will be that the General Secretary, whose department in-cludes education, will also have charge of Local Self government and Municipal subjects. The Financial Secretary, being reliaved of these latter enbjects, will have charge of several branches of work connected with commercial embjects which have been transferred from the general and other departments

ALLAHABAD

Meernt College.-The good work of Principal Jesse at Meerut Cullego has been recorded in the columns of his annual report for 1912 13 and wa are glad to say that it shows an advance to every direction On the question of the University ex-amination results Principal James makes the following obseractions—

The public is ape to judge of the work of a college

by the exceedingly deceptive method of percentages and any one who examines these figures without and any nice with a maintainer and a pare without in littly understanding the conditions in likely to regard them as herdly good as they should be While not for a moment enjury that I am perfectly satisfied with our results, I maintain that mader the conditions we could hardly be expected to obtain

e very high percentage of peases.
The numbers in the arts and science cleases ross The Bomblers is too area and except a control 73 in 1911 2 to 22 in the year of report The number in the present year would be berger still. The fee income shows how the college has grown and increased in popularity. It was Re 12 039 in 1908 Rs. 12 259 in 1909 Rs. 12 250 in 1900 Rs. 12 250 in 1900 Rs. 12 250 in 1900 rose in the same period from Re 36,000 to Re. 85 000 We are giad to learn that the numbers attending the business department rose considerably during

The 'demend for biology' became 'mantent and a class was opened. Thanks to special grants, we shall be able not only to have a well equipped library, but a properly furnished room in which to house it. We are particularly glad to read under discip'ine that while every care is taken to waro young men of the dangers of smmature thought and action, the students are given all the fracdom possible and that they have not abused the trust reposed in them, and the general tone of the institution has been most setufactory This is as it should be Discipline nught never to be made the cloak for under and needless restraint on Individual liberty

MYSORE.

Sri Lakshminarasimheswemy Dherme Patasele, Bengalore -The object of Mr Janopakari Dod dama Setty mestablishing this institution is as explained in the previous year a reports to educate
the poor and deserving boys irrespective of
caste or creed to which they belong, free of cost, in

such a menner as to make each one of them fit for some definate walk of life

The standard of general education imparted in shis school extends from that of infants to that of the Mysors English Liver Secondary The correcof practical instruction given in the industrial acction also begins from the infant stage. The fature course of each individual boy is marked out in the Canarese 2nd Standard At present carpentry and rattan work are the only optionel branches of andnery that can be chosen by the boys. In the handiersft classes pupile are at present trained for the Madras Government Technical Essminations up to the slomentary grade

Science Teaching -As for the teaching of science in the State we recognise that, with perhaps a enginesception the Central College can boast of the best equipped isheratory in all 8 Indinand that is has equal advantage in the matter of the pro-fencorial staff as well. But what about the fitness of those who enter the college? Are they prepared to receive what is to be taught thore? We have personal knowledge of how ectence is being taught in a few High Schools in the Province and our honest opinion is that the subject has to be placed in far better bands if all the trouble about it is not to and an mere make helieve

One feesible remedy seems to be to ferret out entiquated or raw' teachers of science and set them to a coorse of revision of studies in the Central College moder the guidance of the accomplished principal Professor of Physics We hope this sogges tion will not be discarded simply because it finds expression in these columns. The equipment and manning of at feast those Bigh Schools that ero sopposed to provide for special advenced courses in scance should be amproved immediately on that acceptatic education might be a reality and not an empty name -Kumataku

The Mysore Educational Association .- A meetting of this Association was hald in the hall of the Government High School with Mr M Shame Rao, I G of Fducation in the chair There was a fairly large attendance of professors and teachers The draft constitution and rules prepared by the provisional Committee were discussed and adopt ed after soms modifications Membership is open to all suterested in the educational progress of the country and the annual enhacripsion is fixed at Es 3 for the resident members, and Rs. 2 for nonresident members a reduction of Re I being allowed to the case of those whose mouthly income is less then Rs 30

TRAVANCORE

Vernecular education .- The following notifiention appears in the Truconcore Government Gazette: His Highness' Government resolve to appoint a Committee consisting of the following persons, to enquire into and report on the condition of vecascular aduration in the State ----

Dewan Bahadur Mr. A. Govinda Pillat, as, 22, Cheirmen, Members-Mr. A. R. Raja Raja Varme, M.s.

Professor of Sanskrit and Bravidan Languages, H. H thu Maherejeb'e Cellege, Trivandrom. P. K. Nersyson Pillat, e a. e L. High Cours Vakel. Kottayam; Mr. M. Rama Varma Tempao, a a Head-Master, Higher Grade Secondary School, Perury Mr. C. P. Thomas, a. L. N., Readmaster, M. T. Seminary, Kottapam; Mr. N. Komarer, Asen, Secretary, S. N. D. P. Yogam, Triardesim, Br. S. Perameswee Pere, N. a. L. Dasside, S. P. Perameswee Pere, N. a. L. Dasside, Peres, Per Asson, Secretary, S.A. D. F. 10gam, International Mr. S. Perameswee I Iger. M., a L. Dustrict Munsiff, Kushuthorat; Perimeta K. Chunnamma, Assistant Indysectres: of Grit. Schools, District III, Quilon; Mr. K. Venkateswers Iger, a A. Lr. Vice-Vrincipal, Teschers' College, Trasondom, [Secretary]. The Committee will specially report on the following points :- (i) Whether any of the changes introduced by the Education Coda base operated against the development of secrecular education, and if so, how? (ii) Whether, wader seisting conditions, it is precticable to relee the standard of eernecular education and if so, on what lines? (iii) Whether it is necessary to intreduce e reperete higher exemination in the vernecular, efter e pupil ercures the Elementery School Leaving Certificate, and if so, what should be the scope and method of that reamination, and how it should be conducted, and whether, in thes care, the present Elementery School Leaving Certifi-cate abould be retained? (iv) Whether the textbooke in use in the elementery echoole ere suitable, and if not, how they could be improved; whether enitable test books for imparting instruction of w high stendard, solely to the vernacular, exist at present, and if not, how wro they to be emplied! (r) Would it be possible to bad enitable and remonerative employment for those who may peer w high stenderd exemination purely in the veros-colar? The Committee should submit their report within three months. The non-cfflefal members who are not residents of Trivardram will be given travelling allowence at the rates fixed for first close officers in the Service Regulations for all journeys in connection with the business of the Committee and detention in Trivendrum. The official members who ere not residents of Trivendrum, will drew ench travelling allowance on they may be sligible for under the Service Regulations.

Leaving Certificates.—The Trevancore Dorbac has ordered, as a muttee of concession, that the Tablic Service Endocranest be appended the Tablic Service Endocranest be appended by the Certificate of 10 and 1

provided ha produces the certificate before the Derector of Pablic Instruction, Tearsneore, "within as months from the date of this Notification," after which period, the special concretion hereby given will case.

St. Jeseph's Righ School —The pries distribution extens institution took place recently at the Jubiles Town Itali under the presidency of Dewes Bahadar F Rejagnatarheri, the Dewen. The programms was opened by the St. Jeseph's Bate playing the March, Trady O'Nicel. Then score of sectome were song in Sneakrit and Tamil.

or mecome were using in cleaners were leading to the Dawso distributed that preserves, the Dawso distributed that preserve to the students. A recent from "Joliac Ceres" was sugged, and twee good horself which make credit in the amsterors, followed horself with make credit in the amsterors, followed horself but make the control of the students of the students of the students who were to make learner citizents. The programme of the straing woard up with the aleging of "God Swe The King."

COCHIN.

Text-Bock Committee —The following revulence was appointed members of the Text book Committee for the year [170] —[1] The Principal of the Sirekann College, (C) The Blessen Prichester, [6], Heisen College, (C) The Blessen Prichester, [6], Heisen College, (C) The Blessen Prichester, [6], Heisen Prichester, [6], Heisen

LITERARY NOTES.

Som now books of the University Tulorial Press. The Fondementics of Expelsion; by B Domille, MA, F.C.I., Master of Method and Lecturer on Education in the Indigation By Tuloing Colleges of Experience of Proceedings of Proceedings of Experience of Experie

The following are emongst new books ennounced by Mosers. W. A. R. Chambers :- " Chambers's Concise Gazetteer of the Warld," entirely new edition, with the latest arsilable ceosus orders 6: net ; "Adam Bede, by George Eliot, a presentation edi-tion of this masterpiece of fiction, with 16 beautiful illustrations in colour and 40 deinty pen and ink sketches by Gordon Browne, size 102 by 2 by 7 b, 10s 6d net , "Lorus Doone," by R. D Bischmore, a very fine edition of this romance, with 14 illustrations in colour and a series of pen and ink sketches by Gordon Browne, size 8) by 51, 6s net, " Madrigali," by T A Daly This volume of poems has achieved a great success in America. The anthor has been described as the "Poet of the Streets," and bin verses in the Dago dislect depicting Italian life an America show a very close and sympsthet & stody of that interesting class &c net

Messr. Williams and Norgate here just mood a new set of five volones to then How University Labrers, making 75 volones to sil. The following are the titles "Germany of to day," by Costle Tower, "Pfant Late" (Husterted) by Fred J. B. Fenner, M.A. D. So., F. R. S. 'The Writing of English," by Prof. W. T. Brewitz, M.A. I. History of Freddom of Thought, by Fred J. D. D. Litt, J.D. D. sad" Accrete Are sed, Heart, by Mans Jane B. Harrens, M.D. D., Litt

Mesers W and R Chambers here announced fee colored pittine books. Amongst them we not ture a "Baster Brown," which is ager a longther reservation to top's with children but there presents on. The table of the properties of the properties of the Fon Maker, by R. F Gutcen! Size 154 by 10 The only book for 1913 containing new illustrations by R. F Gutcenl, the originator of the ministable. Bester ""Arrehps that tides Both." by C. Co. and the table of the properties of the control of t

The fitton in Agent North Monants in scorphosoly strong, and includes the following — in Transformations of Johnson," a Burnoron Storp, by Robert Barr, "The Amening Quest of Mr. Ernest Blies" by E. Phillips Operaborn; "The Sembler's Strong Homen Blory, by Lancace Theoria; the Strong Homen Blory, by Lancace Theoria; the by E. R. Punkhon, 'Told by the Stape Door Keeper's F. Howell Ernan; "A Dels and a Shuffle," by F. Howell Ernan; "A Dels and a Shuffle," by

H Golinson Owen; "Meck Men Meitie," by N Bearry "The Password," by Semud Gordon; "Nemets Districted," Ferranen Romance, by Cive Indiad, "The Serryring Mr Jones," by Cive Indiad, "The Serryring Mr Jones," by Marie Mar

Wessely's Datloarries T Puber Unwin. 2s each are not only conventent in size, low in price, and thoroughly note date, has a low on price, and thoroughly note date, has a low ones. Of trebuest terms, or of conversations in phrases, but combine the advectages of both, and they also control metal lade of geographical and they also control metal lade of geographical and languages, and tables showing the compaction of integrative rests. The type, though necessarily somewhat small, is very clear, and in all respects appears to the control of the

Mesers Jack are adding rapidly to their "Reoplar's Book" serse which contines to gain to popularly Twitve new volumes are announced for September Anneast their volumes any be noted "Biology by property volumes and partial transfer," All Finites and the service of the Philogody of the Philogody of the Philogody of the Philogody of the Making (before 1985), by Professor Hearnshew, "Gottle," by Professor Garantsee, "Gottle," by Professor Garantsee, "Gottle," by Professor Gill Herford and "Spiritolaism," by J Arthur Hill.

The East Endia Association, London will publish shortly a volone ceitiled "Truths About India" being a compact and merful reprint of leaflets sened by the Association, with Forward by the Right Mon Lord Amphili and Preface by Messrs 3 Brountgeton and J. Follon. The volume will be preced one shifting (with Tuttage 1: 24) net; and is Valeora Sirvel. S. W.

First Container of British First In these two volumes like Wilson Schining gives his impressions of the velos, the beauty not the influence of the power of English writers from Geoffer Chancer to Alfred Tennyson (Henry Fronce, Oxford University Fress), In the survey Mr Schöning Chancer to Alfred Tennyson (Henry Fronce, Oxford University Fress), In the survey Mr Schöning Chancer of C

react by writers, the magic of whose verse has been to him a liberal education Each poet is separately treated with a delicacy of appreciation and informnd discrimination which it is a pleasure to read.

Mesers, Chapman and Hall have in preparation "The First Editions of the Writings of Charles Dickens, and their Values, a Bibliography," by John C Eckel, with a portrait of Dickens, and 26 illustrations and lacsimiles

Mesere, Butchineon's antomo list will include "Unknown Mongolis," by Douglas Carrethers, containing the parative of the explorations foe which the author received the gold medal of the Royal Geographical Society, filling two illustrated volumes, with an Introduction by Earl Opreon of Kedieston, and three chapters on Sport by J. H. Miller.

Bir Robert Ball has revised his book on "Star-Land" and brought it up-to-date for a new edition which Meanry, Causell have in preparation, with additional illustrations.

Mesere Methoen sod Co, will issue at once "Motor Weys to Lakelsod," by Mr. G. D. Abrebam and "The Avon sod Shakespoare Country," by Mr A G. Bredley.

Among the sotoms books to be published by Mr. Milford for the Yels University Press wilt be "Some Questions of Modero Government," by W. H. Telt.

School and College Sporting News

Oricket at Bangatore.

The boys of Bishop Cotton's played the Beldwin Righ School on the 6th instent on the Cottonian ground and bust their opponents by the respectable margin of 119 roms.

Orieket ut Mysore. Bisnor Cortox's s. Unsu Boanding School. An interesting match was played on the Maharajah's College ground on the S0th ultimo between raina conege ground on the Sun minuo between teams representing Bankop Cottoo's School, Banga-lore and the Uran Bearding School. The teams proved to be very avenly matched, the home players only winning the game by the narrow margin of

two runs. The visitors went in first and scored 75 runs, the highest scores being 15 and 16 by C Johnson and C. Combos, respectively Putters; Urs being the Ursu's most successful bowler with six wickets for 31 runs. The Uran team just managed to axpeed 31 runs. The Uran team jux managen to smerch their upponents total by two runs, according 27, of which 20 was obtained by D. C. Nanjeraj Ura and 20 by Niranjuraj Ura. Price was Cotton's most accessful bowler with fire wickets for 22 runs, a splendid performance. The weather was Ideal throughout the day, and the match was wilnessed by a large number of spectators,

M C. A. Association Oricket League. Under the anapices of this Association, cricket metches were played. One of the most interesting matches in connection with this toorpament was played on the Medical (follege ground het ween the Medical and Engineering Colleges. The metch

ended in an open draw. The metch between the Wesley and Law teams played on the Pickwick Clab ground, Island, was productive of a very exciting finish, the Wesleyans eventually winning by the narrow margin of 2 rous.

In the match between Presidency es. Pachiappes played un the Presidency College ground the visitors who took first tenancy of the wickets put up 100 runs. The Presidency easily knocked up the required runs for the loss of 5 wickets thus winning the match by 5 wickets.

The Medical vs. Pachisppas teems met no the Medical College ground. The visitors who elected to but on winning the toss, gave a wretched display, being all dismissed for a total of 52 runs in little

more than an bour.

The metch between the Wesleynos and Engineering teems wee played on the Eogineering College ground The Eogineers who took first tensors of the wickets were all out for 60 ross. The Westeys as knocked up the required runs for the loss of only 8 wights. wicknie, thus winning the metch very easily by 8

The Teams, Presidency ps, Law, met on the Presidency College grannd. The metch ended in an easy win for the Presidency by 8 wickets and 10 rans.

Madrus Athletic Association Football League. One of the most loteresting metches in connection with this toornament was played on the Englosering College ground between the Presidency and Engli meering Colleges The Engineers ran out winners

of the metch by 8 goals to i.

The teams, Law Collega to The Teachers' College, Saidapet, neither of which has a proper ground no its own, met un the S. I. A. A. ground. In this match, the Lawyers were left winners of the match by one goal to nit.

The teams, Medical College vs. The Roysparam Medical School, met on the Medical College ground. Great interest was centred in this match, as neither of the tasms had so far been besten in this tourns-ment. The match ended in a draw out all, the teams

still karping their unbeaten record. The Presidency vs. Medical met on the Medical Collers ground. Though the play was not particularly fast, it was noun the less quite interesting to watch, the team being very erraly matched. Presidency were left winners of the match by the

odd goal in three.

One of the most interesting matches in connection with this tournament was played recently be-tween the Pachiappas and Christian Colleges on orarly fall strongth, the play took a fairly fast and quite interesting toor right through The Pachiep-pas were left winners of the match by 2 goals to nit. tha S I A, A grounds With both sides at ver

The Educational Review.

The importation from England of a Director

of Public Instruction for Death of educa tional experts Beneal and an expert adviser on University teaching for Bombay means that in the opinion of responsible men the Indian Educational Service either lacks men of talentor men with up to date knowledge. of educational organization. Either alterna tive does not reflect credit on them. If the members of the Educational Service are in the eyes of Government men not endowed with talent enough to do the work it means that the Government displays a lack of discretion in choosing them in the first instance. We do not believe that this is true The men chosen for the educational service are Honours men and are in no way inferior in bruns or education to those of other services. We are driven to the other conclusion vis that once they come to India they begin to degenerate at least do not keep themselves abreast of the times-at least in the matter of educational organization So much the action of the Government of Bengal and the University of Bombay above referred Now what is the cause of this? to unplies One cause of the degeneration of educational officers is their frequent transfers from one end of the Presidency to another An Inspector takes a few years to understand his Circle to master its vernacular to acquaint himself with the defects of the various schools under his charge when presto he finds himself a thousand miles off new men a new vernaeular new schools facing him It must be a very hardened enthusiasm for educational work that can stand such a strain A Judge or a Collector can leave a case half heard or a question half disposed and his successor may

take it up and go on but a Professor or an Inspector cannot take up another a work midway for in educational work each man has his own way his own plan his own methods his own favourite subjects and one man cannot take up another man s burden just when the latter has thrown it down. The possibility of having to leave one s work half done or quarter done cannot stimulate any one to do it well. Another and a greater evil is the transfer of men from the Inspec torate to the Professorate and tice tersa these days of the rapid march of knowledge, when no one can hope to be a specialist even in one main branch of one subject no one can be worth his sait unless he devotes all his time just to the one aspect of one subject that he is not to specialize in. How could he do so if he is see sawed from inspecting work to lecturing work and back again from the latter to the former?

But the greatest defect of our educational organization is that it has to be a one man show The D P I has to be a phenomenon-expert in developing primary education expert in directing the growth of secondary education an expert in University matters in that he influences the Senate and the Syndicite in all their decisions and he is also the educational conscience of the Government expert in spending money-he scarcely knows how much he is going to be asked to spend any year-and above all expert in shaping round men to fit square holes at one minute s notice so as to suit the exigencies of the public service Doing all this he has also to shape new policies and so it happens that an expert from England is found necessary once in a way to recharge with life giving oxygen the stagnant departmental atmosphere And the Inspector is a D P 1 in his own

facts of Dravidian grammar and the roots of the Dravidian languages If such a man is found and he is given facilities for work in time a Madras School of Dravidin Philology is sure to be founded worthy of a modern University But before this can be done the Professor of Dravidian successfully Philology will have to conduct a thorough linguistic survey of Southern India collect word lists and prepare a preliminary scientife grammar of the various dialects of Tamil Telugu Canarese and Malavalam and of Tulu Kui Koyi and other out of the way tongues that have been evolved out of the original Dravidian stock We fear this work will require an additional grant and we cannot think of any worther purpose on which the Madras Government whose patronage of scientific work has not been over generous can spend a small part of its revenue Dravidian languages being practically confin ed to the districts of the Madras Presidency it is but right that the Government of Madras should share a past of the cost of the scientific study of those languages

Industrial train ing of Indian students in Eng land.

The report of Sir Theodore Morison & Com mittee for reporting on the working of State technical scholarships for Indian students established by the Government of India in

1904 pleads for the necessity of a better train ing than the Indian student gets now recommends that the students sent should be of The average quite exceptional capacity man who can never be expected to more than carry on well known industries by well known methods need not go to England for training and if he did the State would not be justified in paying lis way On the contrary the

Government should send men who have shown capacity for scientific work and acquir ed some knowledge of science and who are to some extent familiar with the industry they propose to study For instance a student of mining must have had a years experience down an Indian mine Besides the University. business men may be asked to had young men who are likely to benefit by a technical scholar ship Having found the man the next thing ought to be not to stint in the way of providing him with the best training that it is possible for him to receive For the object of the State in training these men at its cost in England is not to enable a few more men to earn a few more Rupees but to enable them to develop the resources of the country to lurther industrial development without which no country can in these days stand the strain of the furious competition that is at the basis of modern trade Hence the expense of technical scholarships cannot be defended at all unless they give the best preparation possible for the highest kind of industrial work To secure this it is considered that practical training in a business firm should form an integral part of the technical scholar's education Therefore the period for which scholarships should be tenable is recommended to be not less than three years and not more than five years This will ensure a long spell of continuous practical training The Com mittee also thinks that the facilities for industrial and technological training have not yet been sufficiently enquired into and proposes that some representative of the Secretary of State visit such centres as Sheffield Liverpool, Bradford and Newcastle where it appears probable that special facilities exist for the study of particular subjects

The King and Queen have expressed their

A Royal Garden
Party for
Teachers.

Teachers.

by holding in July last, a garden party, to which all the heads of teaching institutions in Landon were invited. This is an example which their representatives in the various provincial capitals of India may very well follow. At present our Governors never have a chance of meeting Indian educationists. What with the semi-contemptuous depreciation which the world has always meted out to the teaching profession and the consequent self-effacement which has tharacterized the life of teachers, their influence on public life has been, so far, nil. Nor are the Councils, Municipal or Legislative, so organized that it is possible for them to find their way into them. Democracy will not seek them out, nor are they proficient in the arta that charm votes. And yet they are the people who have benefited most by Western culture, that read and think and are hence least swayed by the cants of the platform, Yet, they never come into touch with, they have no chance of discussing even their own professional problems, not to speak of other public questions, with the powers that rule the land. It is not right that Governors and others should yield so completely to the fascinations of the more talkative public men and so completely ignore the large body of cultured. dispassionate workers in the field of education. We believe European educationists in India have opportunities of meeting high Government officers provided by the amenities of social life. But that Indian teachers should have absolutely no such chance is not right. Of them, as of teachers in other countries, it is true, to quote the words of the London Times that "drudgery and failure, real or apparent,

is the inevitable lot of all who teach.......The teaching profession, throughout history, has pursued its high calling under the shadow of some degree of hostility, or even contempt, on the part of men unwilling to content themselves with its immaterial rewards." It is said that our Governor takes much interest in educational questions and has much sympathy with educationists; if this is true, he can best prove it by following the noble example set by the King whom he represents and arrange to meet teachers in social functions and discuss with them informally questions, educational or otherwise, to the hench of this administration.

The great question that is now agitating

the English educational State grants for Secondary Schools. world and which will be made the pivot round which the Education Bill of next year will turn, is the one of the nationalization of secondary education. The main demand is this-that the State should bear a fair portion of the cost of teaching in private secondary achools, The great principle of reform advocated is that in the case of all schools the expenditure under salaries of teachers should be borne by the State and that the cost of maintenance, building and equipment should be borne by the school authorities. This, it is expected, " would tend to raise the standard of school efficiency throughout the country. This plan would have the advantage of focussing attention for some time at least, on essentials. It seems imperative for the sake of educational progress that for a few years the efforts for betterment should be concentrated on teaching power, and that the first place should not as hitherto be held by the far less important items of building and equipment." It has been calculated that if the State should contribute an amount equivalent to that now spent on teachers salaries and other emoluments, the charge on public funds in England and Wales on education will rise from about £13 000 000 to £10 000 000 One turns with a sigh from this to a contemplation of the miserable pittance called teaching grants given here to our secondary schools Whereas in England they demand an increase of grants by about 50 per cent, in Madris the D P I has been pursuing the policy of steadily cutting down teaching grants till in many schools it is dangerously near the freezing point Whereas in England they want the whole of the salanes of teachers to be paid by the State in Madras not even ten per cent of the salaries is in the case of several schools contributed by the State If all teachers salaries were pud by the State and that according to a fixed scale how much will our teaching staff be strengthened and how good will the equip meht of our schools become if all that is now given by the management as salaries be turned to account for this purpose? Will any member of our Legislative Council have the hardshood to propose this in one of its meetings? If he will we should like to be there to watch the sympathy of our D P I when such a proposal is passed

We have great pleasure in reprinting from Professor Bosss the Moder's Resiew by Herskind courtey an account of the researches of Professor J C Bose of the Calcuta Presidency College It is the first of a series of accounts of original work done by Professors of Indian Colleges and we commend the enter prize and enlightened patrotism of our contemporary, for nothing can stimulate Indian

workers so much as recognition in the land where they work In the article is enumerat ed 80 papers and books by Prof Bose The great contribution of the Bengalee Professor to the cause of the progress of scientific thought is that he has driven one more nail in the coffin of metaphysical physics every generation science makes a supreme effort to wrest from metaphysics a part of the region of the unknown and when it rests after the exection metaphysics returns to the fray and invents new expressions which seem to be illuminating but are really confessions of ignorance in gilded phrases. One such is the so called theory of vitalism Vitalism says that the activities of living beings are guided by a life force which is outside the region of the causes and laws studied by physics in other words life to a metaphy steal something which can never be understood. Such a confession of impotence the true physicist rejects with scora and devises experiment after experiment to prove that the division of matter into living and non living is false in its essentials, that all matter is governed by the same laws, From the side of chemistry the boundary between living and non living matter has been serymuch effaced and from the side of physics much work is being done in this direction. Of such work, Prof Bose s is the most prominent Inhis Responsesa the I iring and the non living (1902), he proved that responses in plants and metals are modified in the same way as in In his Plant Response as a means of Physiological investigation (1906), he built up a living functioning plant from three factors, e. stimulation or transference of external energy to the plant contraction or direct response and expansion or indirect response In his Comparative Electro physiology he correlated the electrical changes in the neuromuscular apparatus of animals with less known changes in the plant world. Thus has he helped to break the artificial boundaries between biology and physics and contributed to the march of human thought.

The Mathematical Association has just published a general mathe-Mathematica matical syllabus for nonfor non-specialists. specialists in public schools. The syllabus is in two parts-one for "rotters" including Arithmetic, Geometry, Algebra and Elementary Trigonometry Our 5. S. L. C. Board may very well take a hint from this, reduce the Geometry and Algebra included in "Elementary Mathematics" and include some numerical Trigonometry The second is for the non-specialists who yet have more than average ability. This includes (1) Mechanics, in teaching which advantage can be taken of the pupil's general knowledge of bicycles, engines, motor-cars, lifting tackle, cranes, etc., the course being experimental and the examples numerical. Such a course will be very useful to pupils taking our S. S. L. C. Group C, Physics. (2) Algebra, in which the idea of a function. the meaning of limit, rational and irrational numbers, the binomial theorem for a positive integral index, finite and infinite series, compound interest law, and the exponential function, will all be treated in a very elementary fashion. (3) Calculus, i.e., explanation of the ideas of rate of change and of integration applied to the determination of areas, volumes, centre of gravity, &c. (4) Analytic Geometry-the application of the methods of analysis to curves with which the student is acquainted. (5) Trigonometry, including such a convention of signs as the resolved part of a vector R is R cos A at any angle A, limits as sine X when X is made very small, periodic functions and functions with multiple values, as illustrated by the direct and inverse trigonometrical functions. (6) Geometry, including one to one correspondence between two figures (similarity, projection or inversion), the principle of duality considered as the interchange of point and line, not necessarily as reciprocation, together with the ideas of properties (harmonic, etc.) surviving such transformation. Solid Geometry such as would take the place of Euclid Book XI and mensuration of the ordinary solids and a certain amount of descriptive geometry (plan and elevation). Such a syllabus would be considered absolutely impossible in an Indian High School, but we must remember that in English High Schools pupils study till they are eighteen or nineteen years of age, whereas our High School pupils are urged by their parents to go on to the University when they are barely fifteen. We quite like the sub-division, implied in the above scheme of non-specialists in mathematics into two classes, those of average ability and those below par and wish that our syllabus in Elementary Mathematics

of the S. S. L. C. could be separated also.

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No 10.

All hierary contributions both for resum and papers or magazines in in catalogue, the should be papers or magazines in its adminant for, should be adminant for the papers of the formation of the papers of the pap

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THE RELATION OF THE UNIVER-SITY TO THE HIGH SCHOOLS IN THE BOMBAY PRESIDENCY •

I AM auro I will not be guilty of any injustice or disrespect to the University if I
take it as my starting point in this paper that
the relations of our University with the High
Schools are of a very meagres and therefore uneatisfactory charactur. Beyond pehishing a
list of what are called recognised High Schools
and examining the students sent up by these
schools for the Matricaltato test, the Outereity hardly has any other important point of

contact with the High Schools Perhaps to be atrictly accurate it should be added that the University prescribes a syllabus of subjects for Matriculation and this year has actually prescribed a text book in English! For many years the University rigidly placed a bar upon the appointment of schoolmasters. however highly qualified and competent, as Examiners at the Matriculation examination and, thue, while briefless barristers, newspaper editors, lunior professors at colleges and members of husiness firms were appointed as Examiners. Headmneters of good University qualifications and wide experience in teeching were shut nut from fear lest they might not hold the halance even between school and school and candidate and candi-Thanks to saper connsels-which though helated have come at last-tha University for the first time took a new departure last year by appointing two well knawn and experienced Headmasters as Examiners in English at the Matriculation examination. This brish recital practically exhausts the renmeration of the relations at present ubtaining between the University and the High Schools I shall codeswoor in this paper to show how larger and more hopaful relations may be developed between the University and the High Schools to the better

A paper read by Mr N G Wainhar, w a LL, before the Educational Conference hald to Bombay ander the surplices of the Texchers Association

advantage of secondary and even collegiate

Let me begin by showing what can be done in this direction by reforming the conduct of the Ma'riculation examination. The serious disadvantages inherent in the conduct of a large public Entrance Examination by the University were clearly and forcibly shown by educationists of longstanding and recognised position during the prolonged debates that took place in the Senete of the University shout three years ago when the Sanste was moved by Hie Excellency the Chancellor to reform its system of examinations in the Faculties of Arts and Science. There is no need to recount those discossions here; but assuming that the blatriculation examination stands in need of reform as we are well entitled to sesume, I ask: Caunot the University delegate to the High Schools the work of exemining and certifying their pupils for Matriculation ! I feel sure after continued and careful conaideration of this metter that this can be done and, if done with the necessary safeguards for efficiency, and fairness will be attended with much advantage to echools and colleges. We should thus escape the avils of crowding e very large number of students and making them do their examinations under conditions of great discomfort, trying to body and mind slike. Our students would also have their work carefully and sympathetically examined. whereas under the conditions existing at present it has to be examined with great harry, frequently by man who have little or no personal knowledge of work in a High School and are thus in danger of being undaly lenient or naduly severs in assessing the papers andmitted to them. And-what is from en educational standpoint even more

important than these considerations-we shoold be rid of the vicious avatem of certifying the fitness of students from the mere results of en examination without regard to the record of their work at echool affording guarantee of their having undergone some satisfactory moral and intellectual discipline. In this connection it will not be out of place to point out that the Madras educationists influenced by these and allied considerations bave practically sholished their Matriculation examination as a University test. In the certificates issued by the Board under whose control the examination is now placed is included a careful statement of the atudent's behaviour and work in his school for three years preceding the issue of the certificate; the Principals of the Colleges are further given discretion on the consideration of such student's osrtifiesta to grant or refuse bim admission to College. These changes had the effect of reducing the number of candidates at the Matriculation examination last year to 821, the number in previous years being shout 8000. I have cited the jostance of Madras to show that the idea of abolishing the Matriculation as a University examination bas stready materialised in a sister Indian University and that there is therefore no excuss for regarding the idea as merely Utopian or academio.

Botl am not content with advecting the meeter ansafer of the Matricalation examination from the University to the High Schools-of course, with proper guarantees of efficiency and fairness as have already said. Jeen going to anggest a further step in the direction of more closely associating the High Schools with the work of the University. Let us look for a moreast at the condition of the first year classes in our Art Colleges.

From the latest University Culendar I get the following figures of the students studying in the first year class in the Colleges of Bombay Elphinstone College 163 St Xavier's College 263, Fergusson College 316, Wilson College 320 These figures tell their own tale! Is the least degree of individual attention to the student possible in classes of these dimencions, even if they are divided into two? I am eure I am not singular in asserting as I do that the "teaching" given in classes of such numbers can be called "teaching" only hy courtesy and does not really deserve that name. I will not waste the time of the Conference in discussing the question whether any "teaching" in the strict cense of the term should be expected to be given in College classes The fact is that the juntor classes in our Indian Collegee are really not Collega classes at all, they are meraly High School continuation classes and the vest majority of the students are not prepared to intelligently follow more lecturing as distinguished from teaching, which former is what goes on in our colleges I am anra this quantitability of the lecture system to our freshmen as at the bottom of the lack of method and intellectnal grasp which is so generally noticed in the graduates of our University. This evil is further accentuated by the fact that on account of the uxigences of the minstion our mount olasses are dealt with mostly by Fellows, Lecturers or Junior Professors, who ara only fresh graduates of Indian, sometimes English and American, Universities and are absolutely ignorant, almost without exception, of the principles or practica of teaching Now I ask would it not be infinitely better for our students to be doing their first year's work of the University course in manageable classes in schools nuder the care and tuition

of able, experienced and cultured Hoadmesters, then to be buddled up to unmanageable classes with on inexperienced and often talkatura Fellow or Jumor Professor Ictionia away to them or rather at them without carring a cost whether or not his bearers are mixiliagently following him?

I can foresee a prop of objections being brought forward to thatwo measures I have hera unggented-thu transference of the Matriculation examination to the authorities of the High Schools and the entresting of the first wear's work at College to the heads of High Schools to be done in the High School after Matriculation I regret that the scope and purpose of this paper will not parmit of my enteriog into the consideration of objections I must not however umit to make one important suplanation to guard myself against being seriously misunderstood I have nowhere said and I certainly do not wish to suggest that this dual work should be entrusted to the High Schools independently of the control and anpurvision of the University ; nor do I wish to imply that this duty should be entrusted to all High Schools as such, Far from it, on the contrary to make the scheme of real benefit to education the University must actively exercise its unpervisory puwers and rank the High Schools according to the quality of their educational equipment and the qualifications of their teaching staff, granting the power of examining students for Matriculation and conducting College classes only to such High Schools us may bu considered to be adequately meened and equipped for the carrying out of these very importaut functions. That there are High Schools in Bombay and other cities in the Presidence which in all essential respects are fit and able to discharge these duties is to my mind 570

certain. When this is done I am ante High Schools will be brought into much closer touch withthe University, the heads of schools will become responsible representatives of the University and as all past experience has shown with added responsibility thrown on them they will ruse to their privileges.

I pers now to my nest point. Our University is the solitary University in all India which enjoys the nneaviable distinction of having no axemination for conferring a Degree or a Luceum in Teaching, The Universities of Madras and Allahabad grant the Degree of Licentists of Teaching; the Ponjsh grants the Degree of Bachelor of Teaching , and Calcuta bastwo examinations. one for the Degree of Licentists of Traching and another for the Degree of Bachelor of Teaching. Surely the Bombay University as the trustes of the higher culture of this great Presidency owes it to the couse of secondary education which is the threshold so to say of academicedocation to make it possible for thosa who have obtained high proficiency in the theory and practice of education to obtain the hall mark of a University qualification. T are is on other means by which the University can so asmistakably show that it acknowledges the claims of education to be placed among the sciences so by instinting a degree is teaching. If the University deems it tight and proper to test and confer degrees for professory in a drawn ariences. sarely it eatent be seriously argued that Eleration is not wertly to be racked with three and to be hopeward with the institution of a degree to mark high attainment in that subject. I feel that I shall have the full sympathyof this Conference in arrive the anthorston of the University with all the parenteres I can command to \$1 ap at the

enricest possible time this discreditable gap in the system of its degree examinations.

Unfortunately no Indian University bee yet risen to the appreciation of the value of a Faculty of Teaching (or Pedagogy sait is technically called) as one of the essential organs in the constitution of the Secate of a University and we are perhaps not entitled to complain if the flombay University does not do what no sister University in India does. But putil the movement of educational opinion in India leads to the creation of a Faculty of Teaching in the Scootes of tha Universities the interests of Secondary edpostion will never find the opportunity of fall espression in the government of our Universities. That day 10, however, not yet, and in the meantime we can only trust that Teachers' Associations like our own in Bombay will atradfactly arge upon the Provincial Covernments the claims of High School trachers to be represented in the University Senates and that the Governmenta recognising these just claims of Secondary education will nominate a anticient number of sobsolmasters to the Secutes of the Universities.

With one other angestion I will bring this paper to a clear. It is an indeputable fact that practically all the teaching of finglish in the High Schools for Indias students is now in the hands of Indeas students is now in the hands of Indeas reachers, the rest majority of whom have covered pronouncation of English, act to talk of expression, tone, general and the other things that belong to the art of electronic little hands of the English lesses is meant of the High Schools is indiscribially dell and bleless and is absolutely derivided the moral and cultural value which belong it.

by right to the teaching of literature I have heard a stirring passage of Scott or a humorous piece of Dickens delivered by teacher and pupil alike in a way that sounded like an author from the Zend Avesta or a hymn from the Rig Veda | The feundation apprect in Secondary education is thus being ruined because our teachers are ignorant of the elementary principles of elecution, that fine art which makes simple reading or recitation a delight to hear and conveys to the learner the spirit and suggestion of literature in a manner which no amount of commentary or explanation can possibly do Now in this direction I think it is in the power of our University to render valuable help to High School edocation by providing for High School teachers practical courses in tha principles of elecution, And if the University organises some systematic teaching of elu ention by competent lecturers, the instruction will be welcomed by High Schools and will be eagerly availed of by Secondary teachers We have lately had an expert lecturing on phoustics under the auspices of the University Why should that course not be the precursor of a course on elecution ? Pronetics is an excellent thing in its way, but when its principles are expounded in the interests of spelling reform it is apt to become academical, something in the nature of a laxury If, however, it should prove to he the preparation for a course on the principles of elecution we all will have good reason to rejuce, for then it will have been the means of leading the University to bear a valuable hoon to the High Schools and it would thus mark an epoch m the evulution of placer and more fruitful relations between the University and the High Schools ___

A TECHNOLOGICAL INSTITUTE FOR CALCUTTA.*

I MAY confess at the outset that on the details of Technical study embraced by the reports I cannot speak with any authority as my knowledge and experience have been entirely in the Department of Arts. I must therefore content myself with a treatment of the subject from the somewhat lay standpoint of the general educationist

The Government of Bengal deserve the highest commendation for elaborating this scheme of Technological Education for the Province. The need for prompt attention to this branch of Indian Education is no longer a matter of debate and there can be no doubt that the sooner steps are taken for its effective improvement, the better will it be for the material advancement of the country Taken as a whole the scheme represents an instalment of reform calculated to confer invaluable benefits on the Presidency When it is put anto operation and the Technological Institute is a realised fact there is sure to be a strong impetus to the commercial and industrial life of the people. It covers several new fields of practical instruction and strengthens those which already form subjects of study in several anstitutions. It is gratifying to see the Committee have taken note of the peculiarly backward conditions which an institution of that nature will have to deal with in this country In their zeal for a Technological College, they have not launched themselves npon visionary ideals which cannot come within the range of practical politics Special

A review of the scheme relating to the proposed Technological Institute for Calcutta by Mr P Seshadri M.A., of Pachalyappa s College Madras,

It is worth while paying special attention to one or two recommendations of the Committee in connection with the Engineering Classes. It is eminently desirable that Professors should be lent from time to time from the Engineering Department for that will ensure practical knowledge and experience of Indian conditions on the part of the teacher than often heen observed with regard to the existing Colleges of Engineering that the instruction imparted in them has not a very direct bearing on the work which the Engineer is called upon to do in India and the defect is sure to be remedied under the new arrangement.

It would seem desirable also to have a elass for Higher Grade Fngineering though the immediate demand for it may not be very pressing That will alleviate to some extent the necessity for Indian students to go to Universities like Glasgow for advanced in struction in Engineering It is difficult to write seriously of the Hon Mr Nathan's suggestion for a special residential college for Indians of good social status, for training in higher Engineering Nothing can be more ill advised than the separation of students in accordance with social status a step so inconsistent with the highest traditions of England to-day The Zemindar's son who considers it beneath his dignity to sit in the same classes with the somewhat less favoured educated young men of his country, does not deserve the slightest sympathy or consideration from the Govern ment nor is such a strange being likely to undergo the manual training necessary for the making of an Engineer Instruction in higher Engineering will only be wasted on him and the experiment is bound to be a failure.

A word on the proposed staff for the Department of Engineering in the Technological College It is quite unnecessary to have a member of the Indian Educational Service for Mathematics, an Indian in the Provincial Educational Service will be found emmently fit for the place The Professor of Mathematics in the local Engineering College has long been a member of the Provincial Educational Service and his has been one of the most successful departments in the Col-It is not possible again to get Euro peans of any ability or distinction as Assist ants on salaries of Rs 400 to Rs 700 and the three such proposed appointments may therefore be assigned to Indians in the Pro vincial Educational Service. They will other wise be wasted on fifth rate and sixth rate Europeans I find it difficult again to approve of the suggestion that the Professors may be allowed to have some consulting practice. It will mean a possible neglect of work in the College and the undesirable association of academical life with the distracting concerns of commercial practice

It must be mentioned in connection with the Department that there is a very good future for the Telegraph classes if only the Government will make more adequate provision for the admission of Indians into the higher ranks of the Telegraph Service with out making it almost the monopoly of the European and the domiciled community, as it is at present

The Textile Department must receive more attention than it seems to have got at the hands of the Committee as it is connected with one of the most widespread and long standing industries in the land. One of the causes of the failure of Indians who have

them as real personages who lived and seted in their own times. Froissart's description of the Battle of Crecy reads like a picture drawn by one who was in the thick of the fight himself end who was ewayed by all the emotions which must have throbbed within the hearts of the conquerors. Who would not be moved by the force and reality of Sir Simouds d'Ewes' description of the famous attempted arrest of the Five Membera by Charles I? The reader seems to walk among the warriors and statesmen, to bear them talk and to see all their actions through their own even. Another effect of a direct study of original sources is that it generates in the mind of the hoy, a stroog and deep impression about the most significent and epoch-making events in each He is belped to understand and catch the import of the development of svents and to form his own opiniou about them. He is not made to depend for his judgment on the writings of men who living in other ages and ruled by other ideas, could not naturally extend to their works a folness, a clearness end a reality which must bo the characteristics of an ideal history. He is taught to depend for his conclusions upon his own jodgment and study, and is better able to develop a discerning faculty which may in time lead to a capacity for impartial observation and healthy criticism.

As Lecky cays "be who hee learnt to understand the character and tendencies of many succeeding ages is not likely to go very far wrong in estimating his own."

Of course the text-book is not to be discarded. Sommaries of the Inndamental facts, of sequence of events, etc., have to be got in y exercise of memory; and for this basis of memory work the text-book is indispensible. But to complete the work of the text-book the apparatus of documents and extracts can be brought in, partly to illustrate the facts, partly to expand them, hot mainly to give exercise to and attrugthen the capacity for analysing, for reasoning and for sifting internal evidence.

In the cese of the History of Eugland, wa have got an abundance of handy volomes of original material suitable for the use of schools and colleges. Gerdinse and Mulliuger's "Introduction to the Study of English History," Colby's "Selections from the Sources of English History," Kendall's " Source-book of Eoglish History," the series of English History by contemporary writers edited by York Powell, the series of English History illustrated from Original Sources published by A. & C. Black and the precious collections of decuments by Stubbs, Prothero and Gardiner are some of the great number of volumes of original extracts. Reprints from original chroniclera like William of Malmesbury and Procesure are easily available and afford greatly valuable material. Poeme contemporary with the events they trest of, like the song of Maldon, are accessible and they form living and instructive pictures whose value cannot be too easily overestimated. Private memnirs and biographies, letters and diaries, possess, apart from their literary value so amount of sterling historical worth and they are all the more useful to shedding light upon contemporary movements, since they are less formal in tone and more personal in their observations than chroniclers and professional historians. The uraliable Paston Letters form perhaps the best picture of fifteenth cectary life, while the immitable D say of Samuel Perps throwe a ball of charm round our study of the secial life of the Restoration These being crore readable then the ordinary dry as doz's perreliyes of historians, would appeal better to the imaginative interest of the student.

Of course great cere ought to be taken in our estimate of the velue of each original anthority Mengre annalists may come side by side with statesmen and soldiers who narrate elaborately their own actions centions indication of the value of each extract and a general introductory trestment of the ecops and value of the whole collection may prove to be substantial correctives against the formation of mustaken ideas and hasty conclusions There is also ever present the danger that the material evallable for the sindent may be insufficient for a complete study, but here again a supplementary reeding of higher books may be expected to remedy the defect

It is no matter of deep regret that up to now practically no effort has been made to present original extracts for the various periods of Iodina History in much a way as to attract students. Well-directed efforts at the production of suitable source books on Indian History are certain to remove that indirect acresion to study their own history which now exists in the minds of our school going fads. These might counsit either of collections of efficient periors and documents or of volumes of

extracts from contemporary chronicles, or of both And it would prove a great step in advence towards the accomplishment of this task if feachers and I cturers familiarise their students with the mest important of the mignal sources of our history

C S SRINIVABACHARI

HENRIK IBSEN

MORLIGNNESS has a glatoner for bumanty, rerespective of latrinso merita Perbays, the greatest admirrors of French, German or Norwegien literary work are found in England, and it may be said that English literature finds some of its warmest and most eloquent admirers in India Sanch admiration would seem to be due to the nation buman tendency, expressed in the steep." Much of the admiration which falls to Iben'a absre, at the present day, cannot be traced to any other cause

ibser's fame reats obsely on his social dramas. One thing, in lesst, becomes patent on a study of these plays—thrauthor's extreme sincerity and the mobility of his ideal. There is, however, room for doubting his wisdom in his choice of the dramatic form for the expression of his ideas

The adoption of a particular literary form imposes serious restrictions upon a writer. The diseas themselves must be oraphile of heing put into that form; and then, the writer must be capable of the task. The nobility and granular of them indeed cannot be devided. The spirit of his writings is the same as that breathed in the works of such ardent reformers of humanity as Runkin or Carlyle, or in a less ostenistions way, of Tharkeray

and Dickens. Their main purpose is to war against lien-coil, political, norment—which precent-day society is steeped in. The dramatic form is by no means, icadequate for the expression of sook feelings; but one in other compelled to conclode that three would have done better to follow in the wake of Rakin and Carlyla. Dramatining is an art by itself and Ibsen is fer from having acquired it to perfection.

Oor; nother always keeps his main end in view, but his productions do not convey his feeliogs to the foll. One of his most noted dramas, "Tha Pillars of Society" is devoted to the tack of exposion the conventional lies on which society is built. The effect intended, however, is not produced. Though the reader canoot fail to see that eociety is sopported on lies, no deep sense of rescotment is roused in him. That modern social life is built on a far-feom sound basis is patent to most men. What is not quite clear is whether society in any the worse off for being founded on falsehood. Evidently, Ibsen does not consider it a satisfactory state of affairs; but that ha so considera it is by no means made plain. Consul Bernick maiotains his position throughout by a series of lies; yet it is not clear how bia position is worse than that of a persistent lover of truth. As long as the desired object is gained (maintenance of a high position, in this case), what matters it whether it has been got by fair masos or foul? It might be said that the nature of the enjoyment might be affected by the ustare of the acquirement; ill-gotten wealth never lasts. Indeed, this is what our customary moralists would say : and this, io all probability, is the lesson which Ibsen wants to inculcata. If so, he ismentship fails to make himself clear. The play, as it stands, msy be construed as a defence of conventional lies on the pleathat they constitute the foundation of society. The drama, as a whole, is flut, staln and unsubstantial. So much have we got nurselves accostomed to our present social life, that though we know its false hasis, we do not much miod it. The phenomenon is very familiar and seems to need no Ibsenite communt, The more need for reform, it might be arged; for a society composed of auch reckless members is bound to fall. The question here, however, is "Does the play itself inculcate the lesson?" Far from it; the premises alone are given; the conclusion must be drawn by the reader, according to his individual temperament,

The same charge applies to Ihsen's other accial plays. The 'Ghosta' is remarkable for nothing but its extreme weakness and its spectral effect. The abone of the play accome to he the very familiar extentific truth, the aims of the father are vieited upon the obliden. All the characters are weak and accitimental. None of the dramufic persons deserve the reader's sympathier, except, perbaps, poor Oswald who is visited with punishment for no fault of his call.

It cannot be desired that I bass possesses aeveral of the misor perfections of a dramatist, to the full. A strong hold of the mis correction and the adequate expression of it of dramatic form, ha is, however, incepable of. His plays by thamselves are expressionless. One can never know by a harastody of the "Folkkedom", whether i bass negards his been as really, a "flends" or a friend of society-His aympathics, for aught wa know, may as well be with the Burgomastar Stockmann as with the Dotor. The reader has to applement the study of the play with an indopen

dont knowledge of the anthor's wewe derived from his other works The 'Escemy of Society' labours on der serious difficollise There is no denouement. The author tries to obtrade his own personality into the play and micer ably fails. The play ought to begin with Dr. Stockmann as the teacher of ragamm finchildren and end with him as medical officer of the reformed baths. It is the latter half which is more important and expressive, and it is this which is most neglected by lbson

"Rosmersholm" may be easd to be in many respects a better play The 'epiritual tragedy' se the translator Dr William Archer calls it is finely worked up It, nevertheless, fails to appeal There is something palpably unsetisfactory and nerest (if the compound be permitted) in the sudden denouement There are, indeed, some fice touches as where Rosmer (Othello-like, but for a different purpose) cries out for proofs of Rebecca's love This love, again, is sprang upon us all of a sudden The reader is from the beginning led to expect a echemieg beartless woman (like Thackeray's Becky Sharp) He is, to the end, presceted sectead with a woman who can love and has learnt in do so. The trans formation is supposed to have been effected by her having lived with Rosmer and imhibed the Rosmersbolm view of life What that yiew is, we are not allowed to know definitely It is difficult to conceive of a transformation of selfish passion into love, affected purely by views of life, however exalted they may be. What makes the transformation more absurd is that it is attributed to Rosmer the weakest character that can he met with in any play

This play is copposed to possess the further ment of accurately depicting party-feeling

In the respect, too, it is a failure. Party-feeling does seem to have been pretty strong at the time. We are introduced to it, however, only indirectly but for the short extract from the 'Country Nees,' which cannot ecrossly be said to exhibit artistic ability. The nuly lesson that a reader can learn is what Broodel calls 'the mighty secret of action and of victory,'—to be capable of living a life without deals.

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Ibsen, if he is respected as a reformer, must base his repetation on his other writings and anesches But for these, the ideotifica tinn of Ibsec and Dr Stockmess would be impossible lifes plays do not satisfy the priociples of true dramatic art. He leaves his bero (Dr Stockmann) in a distressing strait with no belp but that of poor Horster It m gbt, perbape, he said that such a picture is most true to life, and such an end. possibly. the most appealing to men Nothing, huwever, can be more arroseous. One used unly compare the impression produced by any of Ibsen's plays with a simplo novel like Nicholas Nickleby or Oliver Twist to convince occself of the error. The heroes of these two novels do not perish miserably por do the anthore of mischief triemph in their syil Let Loglish society was not long to opening its eyes to the evils in its midst Do-the boys Hall was not allowed to flourish, because its founder eventraily perished ; nor was the mismanagement of the poor bonses tolerated, because Oliver escaped and got into a fortune If the theory of the Ibsenites were true, the writings of Goorge William Reynolds should have been most effectual su rousing popular sedigestice against social evils, whereas they only concentrated popular redigeation on the author himself Ibsen follows neither the priociple of the Romentic drams (following up the development of a character to its final triumph or defeat) or that of the classic drama (wherein the effect of the body of the play must always be mitigated towards the end). Perhaps, Dheen's whole life might be the basis of a good play, as would Dr. Stockmann's, if presented properly. His writings, however, judged as drama, have lutte or no merit.

S. S. Subyanarayanan.

EDUCATION IN MYSORE.

THE Report on Public Instruction in Mysore for 1911-12—s review of which appeared in the Educational Review of Agrant last—is a belated document and does not give an correct ideas of the progress of education in this "Model" State. It is to the financial statement of the Government of Mysore for 1913-14 and to the proceedings of the last Representative Assembly that we

should turn our attention to understand how

affaire stand.

The Government in their review on the report of the Inspector-General of Education for 1911 12 say that " the year was one of atudy and substantial progress in education." The number of educational institutions and of the pupils in them have risen and in spite of the plague havor, the percentage of boya and girle under instruction to the total male and femele population of school-going age is now 30 1 and 6 2, respectively. The expenditure on education has increased to Rr. 19,50,000 and the average expenditure on education per popil was Rs. 0.5-8. Educational huildings have increased in numbers, and arrangements were made to equip the colleges in accordance with the requirements of the University Regulations. Progress both in Secondary and Primary education was encour-

aging Female education continued to increase in papularity. Muhammadan education has also progressed though not to such an extent as it is descrable it should. The Government nute with regret that there has not been any appreciable increase in the another of Mahammadan boys in the College and High School classes which continued to be small. Backward classes have taken to education and it is catisfactory to note that during the year under veview seven Panehama students passed the Kannada Lower Secondary Examination with five in the first class, that a League for the express purpose of advancing Panchama education was formed and that the League pays fees, etc., to Panchama hoys. Technical education is advancing and Sloyd which is so excellently adspted to train and give a practical turn to the youthful intellect has made good progress. The school for the deaf-mutes and blind is maintained in a high level of efficiency.

So for everything is satisfactory. But there is good deal to be done before Mysore can set an object leason to other Native States and the British Provinces and there is every indication that the Government is in right carnest about the progress of education. The Mysore Legislative Conneil has recently passed the Elementary Education Bill-a hill drafted more or less on the seme lines as the, now historic, hill of the Hon-Mr. Gakbale. The bill is a modest one se the Dawan has observed, it is a measure full of possibilities and the experiment will be watched with very keen interest ell throughnnt India and it therefore behoves the Mysors educational authorities to so work the provisions of the Bill as to obtain the best vesnits. They will doubtless hear in miod that real progress could be achieved in

Primary education only, in the language of the Government of Indie, "where beachers in Primary schools will receive considerably higher remuneration, when all teachers will be truined and when it will be possible to introduce more modern and elastic methods in Primary schools." No primary teacher in Mysore Government schools draws a salary less then repees tee per mouth. Even this is low. Might it be suggested for the consideration of the authorities that thus emount might be raised to Re 12.2

As for training of teachers, we feel provi sion is very inadequate. The Government maintains one Normal School in Mysore town and two schools in the districtsat Kolar and Shimoga-for the training of male teachers. There are in addition the training classes of the Maharani's College, Mysore, and the Wesleyau Mission Girls' Normal School, Bangalore, for the training of mistresses The Mysore Normal School is the most important of these and is et present under the care of a very enthusiastus and experienced BA, LI It has an Carlish training class for Matriculates and S I. certificate holders. It also trains teachers for the Produts' and Monleys' examination, the Upper Secondary Examination, the Upper and Lower Secondary Training Examinations, the Madrus Technical Examinations and the Examination for Practical Agriculture The Kindergarten Department and the Drawing Section are in a very efficient state. The school has many wants It is now housed in an old and inconvenient hailding The Library consists of sucstly old and out of date books. It needs better In these respects it compares equipment very unfavourably with the Training Schools of the Madray Presidency and of Travancore

We find that in the budget estimate for 1912 13 Rs 20,816 was ellotted for this school but in the revised estimate the amount was cut down to Rs 14 900 and for 1913 14 the amount budgetted is only Rs 16,092 This is deplorable. The Datrict Normal Schools too did not fare better budget estimate for last year for these two schools was R: 25,570 and in the revised estimate it was cut down to R: 19,520 and the amount provided for the carrent year is about a thousand rupees more than the revised estimate. It is clear that the Education Department has not f and it possible to make fall use of all the grants placed at its disposal and it has evidently no clearly defined pro gremme Primary achools without trained teachers and trained teachers without schools are an anomaly and the aim must be to provide both side by side Upon the teacher rests the grave responsibility of being in someways the most important factor in edocational progress The Royal Commission on Secondary Education (London) have expressed ' Lincational reformers have long recognized that of all amprovements that can be made in achools, none are morn important, hone perhans an important as these which lead in secure a supply of able and exilful teachers" School houses, equipment are matters of accordary importance. It is very recrettable to note that neither in the speech delivered by the Dewas to the Representative Assembly on Saturday the 11th sustant, nor in any of the appeaches of the Representatives, the important question of the training of teachers was so much even sa made mention The Mysoro Government will, we think, he well advised if at abould concentrate its present resources to the improvement of existing institutions before venturing on such costly schemes as

the Mysore University and compulsary technical education.

Turning now to the actual progress of Elementary education, in recent years, we learn from the Report of the Inspector-General that there were in the State 1935 Primary schools for hoys-Departmental, Municipal, Aided and Un-sided-and about 222 schools for girls. The number has increased during 1912-13 by nearly 90. The Dawso in his recent speech said that the percentage of boys at school to the male normation of school age rose from 80 1 to 313 and that the girls at echool to the female population of school age from 6-2 to 68 The number of pupils under instruction in comparison with the population of the State gives a percentage of 20.

The Government of His Highness state in the Financial Statement (pars. 67, Mysore Gazette Extraordinary, 8th August 1913) : "Another minor head under Education, tha increase under which is very noticeable in the Budget for the current year is Grant-in-Aid under which a sum of Rs. 3,97,000 ia provided. This includes a special grant of pue lakh to the Village School Fund for Elementary school buildings. A sum of 50,000 is provided for this purposa in the Budget of the Village School Fand from the resources of the fund itself, the amount that will be available this year for the better housing of primary schools will be 1,50,000. A similar amount was also available last year and arrangements were made by the Inspector-General to utilize the amount by building mesoury school houses according to type designs in about 75 large villages through the agency of the Public Works Department." It will thus be seen that the Government naver

stinted money for education with its mesus limited as they are. As the Dewan said to the Representative Assembly : "A special grant of two lakhs and a half-one lakh for opening new Primary achools and impraving the existing ones and a lakh and a half for the construction of village school buildings was sanctiqued during the year and s similar special great of 21 lakhs has been annetioned in connection with the current year's Budget," We cannot but regret that even these small doles were not ptilized fully. It seems to us either that these amnuuta are budgetted without any definite programme or that the wheels of the departmental machinery move too slowly to utilize these amounts for the specific purposes for which they are esr-marked. In the revised estimates for 1912-13, the Government abserves (para, 18), "The reduction of Rs. 1,61,000 nuder education is due to partial fapea of large lump some, grants sanctioned in the budget for apening new schools and improving existing ones and for promoting technical education in the State generally. In spite of the hest endeavours of the Department, schemes for the extensive operation designed to utilize the grants to the atmost advantage took some time to mature and could be introduced only gradually." Looking at it from the point of view of the people, it is must unfortunate that the Department should have allowed these large amonats to lapse-The Dewan has observed that no village should be considered as majotojoing a fair etandard of enlightenment which does not keep 5 to 19 per cent, of its population nader education. This is a consummation to be devoutly wished in the immediate future. But what has the Government done last year? In Madras the Director himself

is on special daty developing schemes for the extension of alementary edecation. In Mysore the hands of the Inspector General of Education are always full The Government when allotting special fouds night to have deputed a special officer with excellent canacity for organization to the work of mainting plans for the improvement of Elementery education We are glad that this has now been done The Deway 12 his eneech to the Representatives announced "In view of the growing Educational activities of the State and the need that is felt to ensure that the increased grants given are utilized to the best adven tage the appointment of a Deputy Inspector General of Education has been sanctioned This officer will be entrusted with the direct charge of Vernecular education both Elementary and Secondary in the State "

One brilliant feature of the Mysore system with reference to Primary education and which anght not to escape our notice is the School Committees constituted by the Gov ernment in the caral tracts to supervise the work of schools The Inspector General in his report says "The School Committees con tioned to do good work during the year. In the majority of cases they were helpful in checking unaethorized absence on the pert of teachers and in regulating school attendance Several of them took steps to provide accommodation for schools and teachers and to collect foods for exacuting amail repairs to holdings that were in need of them They also rendered useful err vice in bringing to the notice of the Department the argent needs of the schools entrusted to their supervision" It is carious that the Government review makes no mention of the working of these Committees Clease 7 of Elementary Education Regulation

(Regulation 5 of 1913) runs es follows: "For the purpose of enforcing the provisions of this Regulation and rules framed thereunder one or more School Committees may be appuinted for each specified erea with such powers and in such manuar as mey be presorthed." Clause 12 lave down that the Covernment may, by notification in the Gazette. makes rules to provide for the appointment of School Committees and to define their powers and duties and to regulate in whet manner they shall be exercised. Though this applies to arees where education will be made compulsory, still it shows that the Legislative Conneil and the Government have confidence in School Committees The existing School Committees of whose good work the Inspector-General makes apecial mention in his report might be ntilized to select the areas where new schools may be started and to apprest schemes for improving existing schools. It as also enrious that no one has till now neged on the Government the appointment of a mixed Committee of officials and nonofficials to devise schemas for the ntilization of the special grants to improve Elementery education The Government of Mysora hava in the Education Sub Committee of the Evenomic Conference a body of officials and non officials compotent to go into the question The report of a Special Comm tree will be of mmanse value to the Inspector General of Elmating It is the goucers of every one interested to the progress of aducation in Mysore to see that the tale of last year is not repeated and that funds allotted for the spread of education are not allowed to lapse. The Dawan observed in speaking of these apecial grants that the "Government have no doubt that the Department of Fdocation is fally alive to the responsibility resting apon

it for giving practical effect to the various important schemes that are being sauctioned from time to time."

Reference was already made to the Mysore Elementary Edocation Bill. We are glad that it received the assent of His Highness the Maharaje on the 11th day of October, 1913, and that it will be brought into operation immediately in aclected areas. We denot expect much good from it immediately. As Mr. H. V. Nanjundayva, the Conneillor in charge of the Bill, observed, the Government "will begin with some of the larger towns here and there. The unpreparedness of the people is not the only restreent that will operate on the extension of this measure. The meses of the Government to enforce it have also to be taken into consideration. We have already began by making primary education free throughoot the State and if we are to create schools in all the places in the State so ea to enable people to resort to them and to educate all their children, it would mean enormons expense. The elasticity of our revenue is not very great," We regret to find that in the course of the discussions in the Representative Assembly, the income tax which was specially introduced "hy way of a small contribution" for the apresd of Primary Education was objected to and the Down, in deference to popular epipion, anocunced that this tax, unpopular always, would not be introduced for one year. We believe it is not intended to put hack the hand of progress. The Dewan was glad to notice that some of the non-official members thought that the measure was not aofficiently strong. Mr. K. P. Pottanna Chetty was, we thick, perfectly in the right when he said "wheeever there is a school, let namake the attendance thereat compulsory. If you make it compulsory,

you will double or treble the numbers attending them. When new schools are established, it would be a pity if you don't make the conditions somewhat rigorous. If you excuse a parent from sending a hoy to achool on account of seasonel conditiona I fear the very shiest of the school would be frustrated," The Government of Mysore deserves our warm congratulations for having ventured on compelsion. The working of the ceheme will, we once more assert, be watched with interest throughout India and we have anfficient confidence to the Educational Department of Mysore that it will work the Regulation with commendable Buccess.

(To be continued.)

K. A. VIERRAGHAVACHARIAR.

EDUCATIONAL SERVICE IN INDIA.

INSPECTORS AND THEIR APPOINTMENTS.

ANY one who reads the history of Education at the present day caenot but be atrock with the fact that there is universal discontent felt all ever the civilized world with the results achieved in recent years io the field of Education. At the meeting of the Educational Science Section of the British Association held at Birminghem on 11th September 1913, E. H. Griffithe, Sc.D., LL D., F.R.S., President of the Section, delivered a most thoughtful address on "Edocational Retrospect." He opened his address in the lollewing terms :- "We have now had forly years' experience of compulsory education and more than ten years' experience of the working of the Education Act of 1902. We are apending at the present time ent of our rates and taxes about 34 millione per aenum upon education. It seems reasonable as a nation of shop-keepers that we should ask if we are getting value for our money" He started certain inquiries and the result of his inquiries "had been the discovery, if discovery it was, that dissatisfaction with our present system was the prevailing sentiment" Dissatisfaction with the education in the school is as widespread in Germany as it is in England and complaints are often repeated of the nusatisfactory results obtained money spent on schools The American has the same tale to tell There is no end to our complaint in India , our hudget is a very long one and our only consolation is that we are not alone in this respect

One of the asrious complaints we have in this part of our conotry is the way in which one Inspectors of Schools are appointed, their goalifications and claims for the place That the Inspectors play a very important part in the dayslopment of our educational system is a fact recognized by all The number of Inspectors has increased in recent We have at present ten, including the newly created one for Bangalore and Coorg. Two of these ten appointments unly are beld by Provincial Educational Service men Ws understand-ws cannot say this with any authority, for not even mambers of the Legislative Council are taken into confidance in such matters-that the Director of Public Instruction has sent up proposals for nearly doubling the number of Inspectors and adding these new appointments to the cadre of Indian Educational Service If euch a proposal is really before the Government, it is time that the question of Inspectors is examined from every point of view

It has been remarked and with great truth that the Department of Education in Madres

suffers considerably from the rule of mediocres. The Indian Fducational Service has ceased to offer apereasing attractions to the heat educational talent, be the cause for this whatever it may Not only do the present day msn-barring a few bononrable exceptionslack the scholarship and erudition of Dr. Miller, Messrs Powell, Porter and Kellett. they are also wanting in those obstacteristics which made the educationists of the former generation a power in the land. The Indian student in the College classes has a keen intellect and he has his even wide onen What respect will he give to his Professor who is not able to stand up for the independecce of his University? He reads that emment educational experts all over the ervil zed worldare londly proclaiming thatcom. plete control of edocation by bureaucratio atata sa very snexpedicot Just the other day it was that Dr Griffiths was making the prononneement at the meeting of the British Association that 'it was necessary that Universities abould be State aided but that there were the danger that the blight of uniformity and official control mucht descand upon them and that the freedom of the Universities was one of the highest educational assets of this country and that it was to the advantage of the community as a whole that each University should be left unfattered to dayelop its energies, promote ressarch and advance learning in the manner heat suited to its environment." He knows also that the Calcutta University as a body-official and non official, Indian and Enronear, mrsionary and non missionsty-entered an emphatin protest egainst the interference of the State in University affaire He knows that in Bombay, a similar proposition will have fate far different from that at Madras. Will not the student of the Madras Christian

College be right when he oxclaims: "Oh! what a fall since the days of Dr. Miller!" His disappointment will be the keener when he learns that the propear of the proposition is one unturned in the hest traditions of his college, that the voting in which his missionary teacher took part went on racial grounds and that a large number of Boropean Follows left the mucting soon after the voting as if they were there by a mandate just for this proposition!

Just one more proof to show the kind of men we have at the helm of the Educational Department. One of the questions discussed the other day at the Senate meeting was the removal from the L. T. Curriculum of the History of Education. Much has to be said on both the sides of the question and the ontside world would expect the Fellows to agree to differ. The Hou'ble Mr. V. S. Sriniyaea Sastriar moved as amendment and one European Fellow was heard to sek Mr Sestriar whether he read any books on the History of Education, although these two gentlemen sat fu the sams board and though he knew Mr. Sestriar well. How shall we characterize this attitude of mind on the part of the European Fellow concerned? By a strange irony of fate this European gentleman has many Indian friends and admirers who have greet confidence in him and is reputed to be very sympathetic and broad-minded.

The truth of the matter is that we have vary few edecational experts who deserve the octetem and confidence of the people, and this reflects itself in every department of edecation, be it the work of traching or of administration. The impression is gaining ground steadily in this country that the governing race thinks that any gentleman with a degree of any observe University—

European or American—is fit for any kind of educational work, provided the gentleman belongs to their race. To-day a third form teacher in an ont-of-the-way Grammar School io England, to-morrow the Principal of a Second-grade College in Calicut, Tienevelly or Colimbators, and the day after, Inspector of Schools, sitting in judgment over acores of teachers who are intollectually and morally much his experiors but who labour under the great misfortune of being the natives of the soil.

Matters are no whit better in our Univercity. The Syndicate eppoints Inspectors to inspect Colleges sesking affiliation. Recently Mr. F. E. Corley was appointed to inspect the Trivandrum Collegs which sought affiliation for B. A. Honours in History. Mr. Corley is no doubt a distinguished English sobolar and though not a specialist in History, bappens to fill the post of the Chairman of the History Board of Studies, by the mere accidence that he lives in Madras. But the Professor of Hietory in Trivandrum is a young man of rare attainments and of auguestioned suthority in the enhiect. He is nanior to Mr. Corley both as University M. A. Examiner and as a member of the Board of Studies. He is amougst the authors of the scheme of atudies for the History Honours Course. No one could complain if Mr. Storge of the Nizsm's College had been appointed to report on the affiliation, Would Mr. Allen of the Presidency College and Mr. Macphall of the Christian College beve ellowed their innior to inspect their respective colleges. But the Trivandrum Professor is an Indian and this means a great deal.

Now let us turn our ettention to the work of the "heardless boy Inspector of Schools." He has no special qualifications for the office. He has not undergone the requisite training for the new work. If he is a specialist in one subject he has hie fada und neglects the other subject. He does not know the requirements of the Indian echools and their limitations, nor dose he understand the language of the people. He picks up the tricks of the trade and remembers stock words. correlation, concentric, benristic mathod, etc., ests for ten minutes in one clase and for fifteen minutes in another class, hears the specialist teach, at the eams time exemining the pupils' note books, takes notes, leaves the class and five or aix munths after the inspection sends in his report with some such remarks as " svilabus is not concentric. this teacher did not use the spoken or the modern Tamil 10 explaining bis ideas in remaculer, there was no correlation of Drawing with History , space work is not attempted in Arithmetic, the teacher does not believe in marking system, the boys played at Tennis well and on enquiry it sometimes happens that no Tennis Club is uttached to The Indian solved master the school' in the meanwhile studies idiosyncracice of the Inspector, understands his feds, gets up a show for the Inspector's inspection, throws dust to his eyes by producing concentrio avllabases, with long lists of books for reference, heaps of exercise books carefully written to order, relief models, weather charts brush drawings, hue of time in History, etc. The Inspector is easily satisfied and his knowledge of most of the embjects taught being anriace deep, usver bothers himself with details to understand if the work turned out was real end substantial Soon the Gazette augonness his transfer as the Princinal of Rajahmandry College or es a Professor in the Presidency College. A new

Inspectur comes and the humb's schoolmaster has once more to edjust his mechanism tu east the caprices of the new comer To add rusult to ruppry the Department drafts to collegee gentlemenlike Messra Maybew and Yates who have shuwn to possess spec al optifudes fur Inspector's work In the Indian Policy assed by the Corzin Government in 1904, mention is mede of the fact that "in order that the members of the Indian Educational Service may keep themselves obreast of advances which are now being made in other countries in the science of education facilities are given to tham while on furlough to etnly the theory and practice of all branches of education both in Logland and in other parts of the world" How many of the European Inspectors have taken adventage of the facilities given to them and what is their contribution to the literaure on the enhant? Where are the epecial reports of our Educational Department? Where are ppr Matthew Arnolds, Joshna Fitches and Aclands? It cannot be denied that a majority of Inspectors fall far chort of one ideals and that the Indian school master is much dissatisfied with them, though be does not express himself so openly for fear of causequences

openly for fear of consequences
Such a nor European Impapetor But education is bound to progress in the land. Free
and compulsory education will become an
accomplished fast at least in ten years. Our
echools, Elementary and Secondary, whose
number is already increasing, will further rise
is sumber and in efficiency. The certiculum
in Elementary achools will be made more and
murn to approximate to the needs of the
community. We have to profit by the expersences of other nations. The Secondary
rebools must be ullowed freedom to develop
along the lines of their capacity and instinct

and to build up a character and tradition quite their own. Our University ought to be mada an independent centre of culture. It much become national and Indian, with Larga codowments emistifying the aspiratuon at students in the dominion of learning and research, under tha control of the cancers but aff the best tailent available consistent with its resources. In the words of the Government of India "the problems to be solved are so complex and the interests at stake an numerous that India is cottlied to ask for the highest intellect and culture that either English or Indian seats of learning can furnish for her noods."

It goes without saying that the moreage in the number of schools, the introduction of the School Final Examination and the gradual raising of the educational standard demand a substantial strangthening of the Inspecting staff. The State which aids achools with grants from public funds has a right to insist on its Inspectors inspecting the schools, The School Final aystem allows the teacher a certain amount of freedom. He can draw up his own syllabuses in many of the subjects, vary them according to the requirements of his pupils or the meaos at his disposal. Ha can lead pupilate acquira knowledge by their own independent work without drilling knowledge into them, and to enlivata self-reliance. Ha can combat also the attitude of mere passive listeners on the part of his pupils. Ha will determine to a large axtent which of his papils are fit to go up to the College course. There is thus a great deal entrusted to him. In this very difficult task he needs all the help, sympathetic guidance and judicial control that a well-qualified Inspector can give him. There is also the danger that even the most capable of teachers may in the corras of a few years become fossils incapable of new ideas. Inspection is one of the contrivances by which this may be avoided. It is also a gnarantee against indolonee or preversion of trust. Heras elsewhern there is dambiless the danger that the teacher may be fettered by regulations and bethered by fads at individual Inspectors. This can be easily provided against. A really good faspector will realiss that ha is part and pareof the school and will be prepared to allow enfficient freedom of self-development to the school within the limits of doing justice to the children taught thereio. But we want the best men available for the work.

What is wanted to meet the present requirements of the situation is the sympathetic recognition on the part of the Government of the inst claims of Indian graduates to important posts in the Edncational Service. Sometime back in reply to a question put in the Legislativa Conneil re the appointment of Indians as Inspectors of Schools, the Government replied that there were in the Department none competent for the place! It is hard to expect the Englishmen in India to say anything else. There is reason to fear that vested interests will once again raise tha cry of ior fficiency on the part of Indians in the evidence before the Public Service Commission. Indians in tha Educational Department owe a duty to themselves and to their conotry at the present inneture. They should protest against anch a view gaining ground. Inspectors, good, bad, jodifferent, both among Europeans and Indians, The Government appoints an Indian Sub-Assistant Inspector at the fag end of his acrvice as an Inspector, and comparison is instituted between his work and that of a young man full of enthr-

sissm appointed straight to that work, with the result that the Indian suffers by comperison Indian Inspectors of the type of the late Messrs Williams Pillap and Raghunethachariar were more or less ideal men At the present day, we have in Ran Bahadur A C. Prezetharthibars Aiper une of the very capsble of our Inspectore. He may have faults, but has done far more for education in his circle than other Inspec tors can levelaim to The schools in his circle are in a very efficient condition. He knows every school thoroughly, ats teachers and menagers as well fife is a man of silees and keeps himself in touch with the latest phases of thought on the subject of education He guides the courses of study as well as any specialist While aiming at uniformity and a higher standard he encourages teachers to work out their own system Ahove ell he se tectful and is naver offecuive, moves with the teachers as if he is one among them and stands by them to better their pey and prospects The progress of education in Bangalore of which so much was written in the editorial columns of the Madras Mail recently is due to his powers of initiation To him agein we owe the organization of anecial lectures for the benefit of primary school teachers This is a record of which any Inspector might be prond It is idle to assert that Indians are not qualified to be Inspectors Both in end ont of the Departmert we can name hundrads of persons who. with opportunity afforded and with special training, can make thamselves extremely nseful as Inspectors

I lay before the readers of the Educational Review the following proposals for consideration. The purpose of the present article will he served if these proposals stimulate thought and discussion. It is high time that the Connect of Native Education, the South India Teachers' Union and the premier Association of Teachers, the Madras Teachers' Guild, rouse themselves to a sense of their responsibility. My proposals are—

- (1) That for the Presidency there must be fifteen Iospectors of Schools, districts with a larger number of schools being allowed one Inspector,
- (2) Three of these only to be Unropeans
 and their pay sufficient to attract men of
 supernor qualifications.
- (3) That ten of the fifteen Inspectors has appointed from the ranks of Lectorers and Assistant Professors of our educational mattutions and from emong our BA Humours men or Masters of Arts and that the pay of these Inspectors has R. 400.—25.—700
- (4) Thet the men so appointed he under prohation for a period of two yeers under the ennor Impactor of Schools and do want Enrope and America to atndy methods of teaching

EDUCATION

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THE HIGH SCHOOL TIME TABLE.* THE Time Table is every-body's dread in

the High School It tekes up a considerable part of the headmester's time and he avoids nearing it for an alteration as if it were bramble. The assistant mester spouts forth his lips at it as if it were something incorrugible and intended an amena of an apprance to him. The school boy himself,

A paper read by Mr N Venketacheriar B.A., L Y Hastory Ass stant High School Tirucatto palls at the meeting of the De rict Teachers' Association Tanjore

with his usual candour, obstacterises every time table he may have to follow se "worthless,' prescribing as it does, History and Geography for two consecutive periods, or combining drawing, Tamil composition and drill for a whole afternoon. And yet who does not know what a scientific time-table ought to be like? The qualifications and strength of the staff, the number of divisions in a form, the provision made for special class rooms, and the manager's own crippled resources have all more then a lion's share in the shaping of the time table and leave very little scope to the headmaster for the exorcise of his scientific inclinations in the freming of it. In how many schools are there pat toschere owning epecial permissions-very descrivedly of course to come to the school every day et the beginning of the second period, or to be off during all the last periods in the evenings. All these conditions ere sure to effect the time table in the most pasciontific and irreguler mauner, and the beadmaster is not after all the most responsible for a bad time-table.

There are other aspects of the time-table bowever which we may consider more ser-fully this night. The ellotment of periods amongst the various subjects should satisfy the ends of the curriculum, and conduce as much as possible to the drawing out of the powers of the children. I fear, however, in this asin many other things we are more as less guided by external considerations such as the results in the public oxaminations or the departmental 'tendencies' even when there are now.

9 or even 10 periods for English, 1 for translation, 1 for Tamil composition, 8 or 4 periods for Elementary Mathematics (14 or 15 periods for the antijects in the A group alone), out of the SO periods in the week is what obtains in many subcols. S periods are elso devoted to the two subjects in group C. This leaves only 7 periods for the 5 subjects under group B .- Eleraentary Science, Indian History, Geography. Deswing and Physical Training, There is, certainly some discussion at the beginning, when the time-table is being framed, about the merits of these 5 subjects themselves, and some settlement onsues after a show of due consideration for the merits of the subjects 'Drill extra' is very often the verdict. Drawing gets I period. The rest of the periods 6 iu. number ere divided emouget Elementery Science, Indiau History and Geography equally. The Science teacher may get en additional period for Elementary Science by his keleidoscopic presentation of Physics and Chemistry. This additional period is sometimes got from the 15 periods devoted to the subjects under group A. But such treatment, the other subjects do not seem to deserve.

Most of a believe that the changer that have been made in our Secondary educational system have been heneficial in many respects. But the time-table so is in force in many achools is not responsible far any sort good. The ellotment of the periods amongst the various subjects has very little regard to the marks of the subjects the henefieve and tends to frustrate the sime of the promoters of the promoters of the subpect.

When the Matriculation examination obtained to schools had almost antiorn time tables and the allocate was then—Saro periods for English as now. I for translation I to Tenficomposition (done along with Tamil) 6 or 7 periods for Mathematics. Iodian Hatory, Geography, Physics, Chemistry and English Hatory, and Saro and Chemical Control of the Control

had nover more than I period each and often came out of time A vernacular or Sanakrit was taught for 4 periods Carefully comparing this with what obtained now in many schools we find that the past and the present are shoolder to shoulder in many respects and the difference is slight and that not in the most desirable direction

English, Trenslation, Tamil Composition, Indian History, Geography, Drawing and Deill are exectly in the same condition still Phy aics and Chemistry appear in the new gaise of Elementary Science and bave nearly theseme number of periods. The change observable is that the second language or its alternative. Senskrit has disappeared altogether, and Mathematics is very much reduced in size The 11 periodeformerly devoted to Mathematics and second language are now distributed amonost Elementary Mathematics, usually getting & periods, and two optional aubjects (& periods) which may be Mathematics and Phyeice, Physics and Chemistry, English History and Tamil or Sanskert, but not Mathematics and Tamil or Sanskrit and Tamil Reducing the time ellotted to Mathematics or giving an opportunity to abandon the Veroscular capnot be calculated to tend to progress.

By fiction we retain certain things as good for us and are load to pert with them. Thus the fire press books in English and about 500 lines of poetry prescribed can easily be taught in the V and VI Forms with only 7 periods a week. But we most still devote a third of the whole week for the teaching of Fuglish alone. It is by a fiction again we consider the study of books to he much mirroncessery to the schools than the bringing up of ohildren in the most heelthy and robust condition. Although the stody of Sanakrit is

not at all incompetible with the sindy of Tamil, still no provision is made in the achoola for attidents wishing to take up these two achiects as their optionals

The objects of the School Fund are praiseworthy, and the tyramy of set corrioda, and externs! pressors not yst so great as to frustrate all attempts of the headmester to make the time table as neeful as necessary

A few periods now devoted to the teaching of English may be given to Elementary Science and Geography Only then these subjects could be taught as well as desired The 45 minutes period-system may be adopted and the whole day divided into 7 periods matead of 6 The last period every day should be given to organised games and sports Cramming need not be encouraged in schools by ellotting to the enbiects under group C, a large number of periods every week The syllabos stasif may be more lemently interprated by the teachers as well es the examiners 8 periods would be quite enough for the teaching of English History. Chemistry and Physics The periods thus saved may be used for bettering the condition of drawing Library periods must be provided The boys may be asked to read. then their non detailed or some other books. for themselves, the teacher only guiding them

Thus a great deal may he done to import real education to the children in the schools, and it requires the careful consideration of the heade of institutions and their assistants Smillicent time should be given to each of the subjects and the aims of the promoters of the School Final scheme reslised to the heat of nur abilities

OV STUDIZ.

(BACON.)

Studis sure for diliet, for orcement, and for abiliti. Thair cheef yous for diliet iz in prierations and ritisting; for orcement iz in discors; end for abiliti, is in the jujment and dispossible on visitoes: for ecspert une can cosicynt and perhaps joj or participalers, wan bi wuo; but the juerel connects, and the plots and merchaling or stairs com beet from there that as Invaid.

Reed not to contradict and confyst, nor to bileev and tale for grantid, nor to fiend tanc and discore, but to wai and consider. Sum boces at to be teletid, athers to be swoleed, and sum fys to be chould end dijestid; thet is, sum boces at to be red orell in parts, others are to be red but not cynrical; and anm fys to be red hoel; and with diligens and atension.....Reeding maiceth a fool man; and conferens a redi man; and rieting an egacet man; and theirfor, if a man riet lit, be had need have a presid memory; if the conter lith, he had need hav a presid wit, and if he reed lith, be had need hav meed coning, to seem to now that he dath not.

Historiz maio men wiez; poete, witi; the mathmatics sull; natyural filecofi, deep; moeral, graiv; lojic and retoric, aibl to contend.

K. JOGATTA.

EDUCATION IN THE MAGAZINES.

Female Education.

Presiding at an ordinary meeting of the Pachaiyappa's College Literary Society, Srimeti G. Parn Kntty Ammal, B.A., addressed the students un Female Education. She thanked them for the bonour done her in asking her to take the chair. Although the Medras University had been in existence for more then belf a century, unly within the past few years had Indian, especially Hiodo, ladies been induced to take to higher education and their number to-day was su small that it was herdly worth mentioning. There were no first grade colleges for nomen, and among the second grade colleges beyond the Girls' Colleges in Mysore and Trivandrum, both meintained by the Governments of these States, there were no Government institutions of the kind enywhere in this Presidency offering special indocement for women to enter on a University course.

Indian women taken as a whole, ere noedscated, illiterate and practically more, which meant that half the population of Indie did not form at active agency in its progress. None would est that Indian women exercised no influence whatever. Within the domestic circle they were power to be recknied with; far from helping the cause of progress they were with honourable exceptions, an obstacle to it, and the blame did not lie on them. The rigid and inelastic social system under which they were brought up, was responsibla for it. Every person, man or woman, had almost a natural right to be given that training which would enable them to use their minds, so as to adopt themselves to the environments and to improve, if need be, the environments themselves in harmony with what was called the fine spirit.

In determing with what was called the non-spins.

In educating the women of India they were introducing no innovation. Thay were only following the best and noblest traditions of Arya Vertice, India called for the aerrices end sacrifices of all

her children, they would be proving untrue to themselves if they did nothing to dispel the darkness that enveloped one half of her children and made them unable to move onward with the progress of the times

Womenhood should be developed on purely and strictly Indian lines. Indian women would he making a great mistake if by sping the menners and fashions of the West, they imagined that they were belong the cause of program With what was external and non essential they should have nothing to do It was the heart, the mind and the soel that required to be educated and guided and when those scats and sources of all that was good in men and woman were properly welladjected and taken care of, then the outword expressions of them would sarely correspond with what is inside

After all the hest education was that which made the mind to edocats itself, everything must be atudied, not at haphazard, but in a regular systematic and methodical manner imbiling the spirit of what had come down to them from the past and adding to it if possible

Education in Elementary Schools

The prize distribution to the populs of the V Subramaniyam Free A V Elementary School, Mint Street, Madras, was held in the school premisea The Hon'ble Mr T. V. Seebagers lyer spoke on Blementary Education in the course of which he said -

With reference to the osture of instruction that should be imported in such schols, he was of opinion that they should pay more attestion to the industrial side of it. He was accused by some as heing against literary education. He wished to noint out in this connection that he did out deprecaste laterary education. He believed that they should have literary education. What he desired was that in cases where the students were not hkely to go up for the higher course, and where the students were poor, they should not go in for literary education. There was an egitation at present in England to put a stop to literary education es far us possible, and that the education should be given in such a way that it would enable them to carn their hrelibood. That ought to be the end and aim of education He therefore asked the management to impart to the students some knowledge in arts, carpentery, etc., which would enable them to earn an honest livelibood.

Vernacular in Indian Education.

In the course of his speech at the prize-distrihutton, Tuchicopoly, Mr Gardiner, Principal of the S P G College, Trichinopoly, spoke as follows about the Verpecular in Indian Education .-" I am glad to note that the original seed of the manthings, its growth, and its fruit have all been ' Anglo-Vernaculer' in cheracter. That designation axpresses combination and co-operation. although attempts have heat made to set "Anglo" and "Yernscoler" in opposition es if their interests could be untagonistic. That is a felse patrintism which asserts that whatever is purely Indian is therefore better for India, whereas true patriotism claims that everything that is hetter tor India must be made Indian, if not already Indian Japan recognised the folly of her boycott of Western knowledge and Western ideals, and as a consequence rose to the position she bolds to the world to-day. In India the English tongua cannot be replaced even if we regard it aimply as a bond of nuion among tha educated whose vernaculars vary widely But it se much more than that It is also the medium for the sechangs and assimilation of common continuents and ideals between Britons and Indiana. Until the educated classes are thus united by a common tospiration, thay can navar lead public opinion as the educated classes ought to do in avery land Can it be denied that to-day in India the edocated classes are still in meny cases contanted to be led by those of less salightenment and wisdom? But much mora is required The vernaculars are indispensablenot simply as an end in themselves, valuable as they undoubtedly are, but as a masse of commu. mention between the educated and othera-the wires, so to speak, for electrifying and energising the putions of India The educated classes can no more dispense with the verneculers then the uneducated, and those adnosted only on vernacular lines, an important section of society, cap dispense with leaders and guides who have essimilated and naturalized, not merely borrowed or sesumed, the lastning and ideals of the West in the hest way in which they can he sesimilated m India, a co through the medium of a language of the West Spiritual, morel and physical trnth and wiedom are naiversal in character, and it would be folly to eltempt to localisa tham, or any of them as national in eny land in these days of enlightenment, bowever, nearly all men are as ready to learn from others as they are to taseb .- ' to prove all things,' whether of foreign or indigesous origin and to hold fast that which is good," wherever thay may find it and in whataver form 15 may appear."

Industrial Education.

While declaring open the Fifth Indostrial and Agriculturel Cochie Exhibition, Hie Highness thu Mahanaja gave out his viewe on Industrial and Agriculturel Education as follows:—

The present occesion recalls to my mind the small gathering five yests ego at the Vyyur Park, Trichur, in which I had the pleasure, as I have to-dey, of taking part. I rafer to the upening ceremony of the First Agricultural and Industrie! Exhibition held in my State. The British Resident very kindly parformed the opening caremony of the three following Eshibitions, and it bee been a great satisfaction to mato have been shie this year to be present at this interesting gathering I can assure you, Gentlamen, I have watched with pride as well as estisfaction, the gradual develop. ment of this movement which my Dorber bas insogurated, and I myself have, at each successive Eshibition gained many a lesson of the immense possibilities of sgricultuis and industrial progress which Cochin possesses. These Eshibitions afford seefal mesos of comparison and stimolete amoletion, and to them we nwe to a great eatent, the progress that has been made of late in agriuniture and industrius,

Agriculture which must be the main pursonited every petion, may beauge its principles and methods with the advance of fines, but it will ever continue to bold e fondamental position in the country. I have it see my constant aim and andeavour, as the raiser in my Siste, to promote those bonds between the different classes amongs any notificial whose congration is agriculturally the content of t

Sciesce and technical improvements on the order of the day. Opinial, machinary, industy and skill require to be combined barmonically to preserve and malotic, it is condition of prosperity in those days of keen competition, the vest population that life hy specification, and I am population that life hy specification and a minimal condition of these are consideration to the introduction of these are consideration for the which will be premote amongstup people higher drives and a higher intelligence; for these does not bring become amongstup the people higher and the property of these does not bring become among the people higher and the people when the people were also seen bring become an or the people when the people were the people when the people were

I slocerely bope that they may be intirated before long with the loving co-operation of me subjects. The account my Daweo has given of the Durbar's general policy and their part labours, will not, I hope, fail to convince my people at the deep personel interest I take in their sgrienlines.

tural and industrial prosperity and my determination to do everything in my power to advance it.

Technical and industrial education is a thorog andject for experts, but, as a laymau, I may be permitted to any that, so long as a higher stendard of industrial education is not introduced, stop by step, in the public schools of the State, and thu general education given to the population at larga is not made less literary and more practical, I, for my part, do not hope for any material change or improvement. White, therefore, on the oun hend we must encourage the industrial population to acquire a higher intelligence, we must, on the other, afford adequate incentives to those amongst the higher orders of society, who commend capital and confidence, so that they mey be able to acquire the art of co-operation and bosiness prgenization. For some time yet we mey have to depend on farergn countries for high techninel skill and axparience. I am closely watching this interesting movement, and, with the enail resources that my State possesses, I am andesymosing to establish gradually a sound eystem of education which is best edapted to the requirements of the different grades of caste and calling amnuget my people.

(FOREIGN)

An Apology for Pure Mathematics.

At the Mathemetical and Physical Science Section of the British Association, Dr. II. F. Beker read an address which was devoted to so explanation of the justification of the pare mathematicies.

Ha admitted that the mathematician, as each: bad on part in those public nudeavours that arcee from the position of our Empire in the world, nor in the efforts that most constantly be made for social edjustment at boms. He was shut off from inquiries which stirred the public imagination; when he looked beck the ages over the bistory of his own aubject, thu confidence of his friend's who studied beredity and taught engenies aroused odd fealings in his mind; if ha felt the fascination which came of the importance of such inquiries, be was also prepared to hear that the aubtlety of nature, graw with knowledge of her. It was not logical to ballavo that they who ware called visiousry because of their devotion to creatures of the Imagination, could be comoved by such shruge. Nor was it at all just to assume that thuy were less coverious than others of the practical importance of tham, or less ensions that they should be vigorously prosecuted.

INTRIVSIC VALUE OF THE STORY.

Why was it that their systemetre stody was given to other things and not of necessity, and in the first metaoce, to the theory of any of thesa coecrete phenomena? The reason was very much the same se that which might lead a man to obstato from piecemeal, indiscriminate charity se order to devote bie ettention and money to some well thought out scheme of reform which seemed to have promise of real emelioration occurrence of the promise of rest emeioration of one toread away from details and examples, because one thought that there was promise of fendamental improvement of methods end principles But more than that The improve ment of general principles was aeduces, and il andertakee only with a view to results, might be ill timed and disappointing. But as acce as we consciously gave ourselves to the study of nurersal methods for their own sake, enother phenomenon appeared The mind responded, the whole ontlook was enlarged, infinite possibilities of intellecteal comprehension, or mastery of the relations of things hitherto nuenspected, hegan to appear on the mental borrson However the fact was interpreted, oar intellectual pleasure in life came not by might nor by power - arose, that was most commonly, not of set purpose-hut ley at the mercy of the response which the mind might meka to the opportenties of its experience When the response proved to be of permasent interest-and for bow meny centuries has mathematical questions been a fascination ?-it was well to regard it Forther, in our time old ontlooks hed very greatly changed , old hopes, dieregarded parbage because undoubted had very largely lost their sauction, and given place to careest questioning Could any one who watched doubt that the cooraga to five was in some danger of being awallowed up in the surjets to acquire? Might it not be, then, that it was good for us to realize, end to confess, that the nurenit of things that were benetiful, and the achievement of ratellectual throng that brought the loy of overcomieg, was at least or demona trably justifiable as the many other things that filled the lives of mee? Might it not be that a wider recognition of this would be of some generel advantaga at precent? Was at not even possible that to hear witness to this was ous of the uses of the scientific spirit?

THE SOUL OF THE SCIENCE

After referring to come of the broader seames with which pure mathematics was concerned—the calcoles of variations non Ecclidean geometry the theory of groups, the theory of algebraic fenctions, the theory of functions of complex

variables and differential equations, and the theory of unwher, be remerked, that each of these was large accept for one man's thought, but they were soleterworn and interlaced is side salieble fashion and formed one mighty whole, or that the sugconstant of one was to be weeker to all Pure mathematics was not the rival, even less was it the handmad, of either braceless of success. Properly portaced, it was the essence and soil of them all

Oor life was hegirt with wonder, and with terror Reduca it by ell meene to rathless mechanism. If that could be done, it would be e great achievement But it could make ue cort nf difference to the fact that the things for which wa lived ware spinisted. The fact remained that the precioes things of life were those called the treasures of the mind Dogmas and philosophies, it would acam, ross and fall Bot gradually accompleting throughout the ages, from the earliest dawn of history, there was a body of doctrine, a reasoned lenight into the relations of exact ideas, painfully woo and often tested This remained the main haritage of non, bis little beacon of light a midst the solitudes and darkeess of refigite space, or, like the about of children et play together to the coltivated valleye, which coetinged from generation to generation Yes, and contresed for ever | A oniverse which had the potentiality of becoming thos occasions of itself was not without something of which memory was bet en image. He most have studied nature an varp, who did not see thettheir spiriteel ectivities were inherent in the mighty process of which they were part, who could doobt of their persiatcace And on the intellectual side, of all that was best excertanced, and corest and most deficite, of all that was oldest and most but versal, of all that was most fuedamental and far maching, of these ectivities pura mathematics was the symbol and tha sem

An Indian Alphabet

At the British Association in Section L.—bdn
apper on 'As Indian National Alphabet,' stated
that the necessity for it cross from the fact that
these British and come of the large and dislects
and, asy, tO different acrops there was no Indian
alphabet properly as called (except for English)

The Indua acripts were really syllabaries, each requiring from 500 to 1000 complicated types to prins. All the characters of a veracoid must be mastered before any reading wes possible and learning to read wes as difficult as mastering agreem of aborthand. There were only 53 typical system of southeand.

elementary sounds in the whole of the Iedian languages put together, but there were 20,000 elaborate symbols used to express them. Many of the characters were extremely trying to the ave-aight and difficult to read, to write, and to print. The complicated syllabaries were the chief cause nI Indian illiteracy, which was so great that ninety per cent, of the males and 99 per cent, of the females were unable to read and write. The simple remedy suggested for this lamentable illiteracy was on Indian national alphabet based upon the Roman letters, supplemented by the phonotypes of Sir Isaac Pitman and Dr. A. J. Ellis, with some Romanic letters for special Indian sounds. Such an alphabet would provide for an accurate transliteration of all Indian languages or for a practical phonetic writing of the same. In all, 53 types were auggested, but on an average only 37 were required for a vernscular. The letters were easy to read and write end suitable for printing, and with them an illiterate might be thought to read his mother-tongua in ten simple lessons. It was suggested that the Government should eppuint a linguistic Commission to go thoroughly into the whole question, and that the British Association should take the lend in promoting a memorial to the Secretary of State for India on the subject.

Education in India.

The Dean of Manchester (Bishop Welldon) said that no responsibility lying upon the British Empire was an great as the responsibility for India. It was necessary to educate the people of India, whether they wished it or unt. Only they could ant give the people education, and expect them to remain as before they gave them education, Booner or later, they must give them office and respon-ability, but for his nwn part he oberished his Isith in the duty and blossing of giring the people of India edocation, whatever in the far, far futura might be the result upon the Indian Empire itself. But education was worthless without religion. He hoped and prayed that the outhorities in India would look facts in the face. There was a saying current in the East that it was right to leave the peoples of the East religiously alone. That was an absolutely mistaken idea. They could not leave the religions of India alone. If they wanted to hare the religions of India alone then our whele Government must leave India. It was utterly impossible to plant down a great Western civilization in an Oriental people without vitally affecting the religious of the East, and if they upset an Ornental's religious faith without giving bur anything in lieu of it, they were certain to produce a demoralization of charecter. That demoralization

would show itself in the disaffection and disloyally, at present rep lawied, which would arest perceas as the people became more educated, nniess the education was based on religion. He realized that the Government of India could not be missionarie, but the Government must look, and be believed it was looking more and more with sympathetic larnur spon the work done by the missionarie,

THE UNIVERSITIES.

CALCUITA UNIVERSITY.

Rev. Dr. J. Watt has been appointed ordinary Fellow of the Calcutta University.

A contemporary tearnathat the Senate of the Calcotta Turversity will avail themselves of the wist of Hus Excellency to Calcotta in December next to present him with an address of welcome in a special Convocation to be held for the purpose. It will not doubt be a worthy way of above ing the loyalty and respect of the University to Hus Excellency.

Object of Simla Mission.

Sir Ashototh Motherjes, View Chancellor Calcetta University, when had bean to Sinds, recently to discuss advantaged matters affecting Bengal with the Government of India, has returned to Calmita. One of the principal mbjects of the mission was tosseen more mosty from the Government of India generator education for the Calcutta University which will enable him to create new departments or extend estiming ones. It is expected that, with the additional great, the University willice was better the University willice was better the proposed of the Calmina of t

ALLAHABAD UNIVERSITY. CONVOCATION.

A Cosponation for conferring Degrees on graduates in Arts, Science and Law of 1913 will be held on the 15th November next. Only these graduates shall receive thele Degrees at Convention who have given prior notice, with particulation of the convention of the conference of colleges and roll number, to the Regular to the colleges and the convention of the college of intention to be present most reach the Regulars befores the 5th November 1915.

Successful candidates for Degrees who are present at Convocation, and who have not their own gowns, can obtain gowns on hire etc charge of Re 18 from the University failors, Messas Parfitt and Co. who will be present at the Senate Hall, Candidates must be present at the Sanato Hall, Aliandaid, by 1 p s on a the day of Concounts, to obtain their gowns and natructions for presentation to the Vice-Chancellor; otherwise they will not be admitted to Convocation Candidates receiving their Degrees in absence shall be each charged fix 10

Diplomas to obsentees will be resuled direct, an application by graduates counteragued by Principals of colleges concerned, and on receipt of the fee of Rs 10 in each case

We arn glad to learn that Pandit Manoher Lal Zatahi, Ma, Head master, Government High School, She highenpur, is a caudidate for election as a Fellow of the Allahahad University He has been nominated by Mahamahopadbysya Ur Ganganatha Jha Pandit Manchar Lal as a brilliant alumnus of the Allahabad University Hair an educationist a scholar, a public spirited mao He richly deserves to be sent to the Senate Wa bare already announced the candidatura of Paodit Goksran Noth Misra of Lucknow and Monshs Narayan Presed Asthena of Agra Other candidates wn arn told, ara Mr Ahbaya Chergo Mokeryi of Mine Cantral College and Mehta Jagaonath Prasad of the Police Dapartinent Thera is a feeling that Pandit Jabal Narala Gurta should be a candidata too There are four vacancies to be filled this year by election by registered graduates -Leader

TECHNICAL EDUCATION

Typewaiten Topics

NOTICEABLE IMPROVEMENT IN THE POT

The Fox typewriter has been very greatly improved duning the year in escend if its mechanic features particularly the type hare. After each features particularly the type hare, after each stature and estreme Fox. Type writer Uo have the thinked an entirely new method for making that type-hra, which up to the successful terms nation of these separaments it has always the type-hra, which up to the successful terms nation of these separaments it has always between the summer of the separaments it has always between the summer of the separaments of the summer of the separaments of the separaments of the separaments of the separaments of the summer of the separaments of the

REMINSTON THE LEADER AMONG TYPEWRITERS

In every exposition of the past third of a century, the Remington has received the highest bonors wherever sought. Here are some of the landwarks of Remington history.

1876 First pohlic appearance at the Centen mai Esposition Philadelphia

1893 Official Typewriter of the World's Columbian Exposition at Chicago

1900 Officed Typewriter of the Universal

1901 Official Typewriter of the Pan American Esposition at Buffalo

1912 Official Typewriter of the International

Esposition at Torio.

As a fitting climar, theo, to the Remington achievements of former years came the appendix.

achievements of former years, came the announcement, made during the past year, that the Reministen has been chosen as the official type writer of the Pansaca Pacific International Exposition at San Francisco, to be beld in 1915

It is deficult, within the confines of a single article to tell even the main facts of the daving ment of the Remington Typawriter during the year that has passed. The Remington Typawritar organization has expanded notil in the United States alone there has been mearly a fifty per cent increase in the number of direct branch offices of the Remington, with a like increase in the number of sub-offices, while no the other parts of the glabthe expansion has been proportionate

L O Butte & Bros Trrewriter

One of the most important features of the L. C. South & Bros. Type-surer that appeals to the users is the system of ball bearing. The importance of their suplained in some of the company's advertising matter as follows.

Here is the secret of the superior service the L O Smith & Bros Typewriter renders

The operator of every typewriter is doing three things 98 per cent of her time-striking the keys, shifting to write capital letters and returning the carriage to start a new hoe

Everyone of these operations is made essier and quicker by the use of ball hearings—an esclusive L O Smith & Bros feature

The various Correspondents of Schools and Colleges interested in Typewriting will be benefited by the following article which appears to the Pitman's Journal (the organ of Shortband and

Typewriting) published in Loudon and dated the 27th September 1913:---

"Among the machine comparalies's new to this market none has gained more friends than tha L.C. Stath & Brox Typewriter. Another proof of the popularity of this machine is seen in the fact that the Duponi Pawder Cu, who some little than the Duponi Pawder Cu, who some little conditional machine, but resident extentional code for 51 machine, but resident extentional code for 51 machine, but resident that and are now using more than 1,000 L. U. Saith & Brox. Typewriters."

We would just mention here that the machine has seen its way in several Schools and Colleges recently in connection with the Special Grants allowed by the Educational Department.

BOMBIT COLLEGE OF COMMERCE.

In a Prees note of May 1913 the sanction of the Secretary of State was announced to the scheme for the establishment of a College of Commerce in Bombey end it was stated that the Secratory of State had been requested to select a suctable candidate for the post of Principal of the College, The Secretary of State had recently informed the Government that a suitable candidate has not yet been found. Aithough greet difficulties base presented themerices in the way of an early opeoing of the College, partly owing to the above resson, partly in connection with the question of accommodation, and partly because of the recently introduced changes in the University calendar, the Governor-in-Council ennounces in a Press Note that it has been possible to concert provisional arrengements, which will admit of the original intention as to the opening of the institution being carried into effect.

The Government makes the following provisional arrangements in the College product arrival of a permanent Prioripal from England ar noull farther orders.—Mr. K. Schransens Iyre, 19-1, 17-1, 24. A (London), to act as Principal (Honotery), Mr. Nilkonath Sadabiyas Tatakhav, Lander and Sadabiyas Tatakhav, Lander and Sadabiyas Tatakhav, Lander and Lander and Lander Lecture to Political Economy, Jan. 19, 1944. The Peterser in Political Economy, Jan. 19, 1944. Supplied the Wescould Law, Mr. Scaphil Sharph Scarce and (London), Engleser, to act as lecturer in

The College has started work on the 22nd instant in the Elphinstone College Buildings, Esplanade Road, and the hours of attendance will be from 8 to 10 s. m. and 5 to 7. p m. Candidates that have passed the Intermediate examination of the Madrae University are allgible for admission. The first University term will be from the 22od instant to the 22nd December, the 2nd term from the 1st February to the 30th April and the third and the last from 15th Jone to the 15th August. Students must attend at least 3/4 of the lectures delivered during the term. Thie Coilege will prepare candidates for the Bachelor of Commerce degree recently instituted by the University of Bombay at the instance of Mr. K. Subramani lyer, Honorary Principal 89, Appolla Street, Bombay, to whom applications for admissions are to be made.

Reviews and Plotices.

Pope's Essay on Man; entrad by A. Hamilton Thomson, M.A. (Cambridge University Pares.) 24.

The annotated editions of the Pitt Press Berish are very faw virals in point of stollenan and comprehensiveness. The latest addition is Pope's Peay on Man by Mr., Thomson. In addition to the avent well-written introduction, it has got an abhorate sangles of the porm which are the abhorate sangles of the porm which are the present the presen

A PROGRAMMS OF EDUCATION, BY MR. J. READY-MOREY. (THE TIMES PRESS, BOMBAY).

Mr. Redymony has attempted to set forth at dical of adeastion, hased on the fired sersionment of the child, unchecked by the sheakles of scholastic routine and disciplien. We do not replace the set of the service of the provided by the service, for general elecation in a country, nor are we continued of the previbility of good results from it. It is not probably not fair to judge an adoutnoul system to be serviced by the service of the probably not fair to judge an adoutnoul system to be serviced by the service of the service of the probably not fair to judge an adoutnoul system to the service of th

RAPORT OF THE COMMITTEE OF HIGH SCHOOL

TRACTION IN ENGLISH: 1880 BT THE NATIONAL EDUCATION ASSOCIATION OF THE UNITED STATES.

Though an institution of very recent origin, the National Education Association has been showing useful activity. The pamphlet under review contains an examination of the aims of Secondary education in English and has some suggestions for their effective execution.

STUDIES IN ENGLISH IDIOM, BY G BRACKENBUST, M A (MACMILLAN & Co LTD.) 14 6d.

This is a valuable exposition of the principles of English grammar in relation to the practise two of composition. There are chapters on the nusal disassion of grammar, that steation is concentrated chiefly on the work of exhibiting models and sflording insteal exercises to the student. We wish the author had added some chapters on the heartest whom the correct whom and drawing sitentime to some of the until errors. An appendix of phrases shortd sho have been useful

Introduction to the Stort of Pageine Litera ture, by W. H. Stephens, B. A. (Machillad & Co. Led.). 14 6d.

Mr Siephens book is not only a short menual of the history of Eoglish literatore, hot stan a treatise on the principles of style and Rhetoric There is a correy of the development of Lugish lilerature in the first belf of the book part cularly adapted to the elementary stodent and special commendation is due to the simplicity and clearness with which the paragraphs are arranged A very successful attempt is made to fameliarise the student with the various branches of prove composition and their distinguishing characteristics of form and spirit A beginning is also made in the study of the History of the Luglish Language by a treatment of anticeta like the Aryan family of languages and the borrowings of Finglish from other languages A chronological table of authors and their works and an explanation of some of the technical terms of literature cohence the salue of the book

THE TENTEST, BY WHEEKS AND ALLEN'S JUDIOR SHARROFFEER SERIES (University Tenorist Perss) le

We have had occasion to draw attention from time to time to the excellent series of editional of Shakepear's plays issued by the University Tuto rial Press. The rolune onder resists is initiated for elementary students and the editional matter is appropriately except of as upiles kind than what is found in their initial studies. This book is prefaced

with a necessary ecount of the life and work of Shakespeare, In these days of attractive books for children, the University Tatorial Prise might bare provided the book with some illustrations.

HICHEGADS OF LITZEATURE I INTRODUCTORY AND FOUNTH BOOKS (THOMAS NELSON AND SONS) 10d. & Jr. 6d.

Measrs Thomas Nelson and Sona bave been producing a remarkably beautiful and useful series of books in their Highroads of Literature We have not seen the like of them in the elementary educational world either in their capacity to kindle a love of literature or in their appeal to the ertistic sense of the young readers The child in entroduced to simost all the well known personals ties and works of literature and the coloured plates contain famous masterpieces of painting which illustrate them admirably. We have not been able to discorn any lapses from the spirit of clear ness and amplicity so necessary for books of this class. We confess the series has made on wish we were at acheol again !- to enjoy the privilege of reading such volumes instead of the dull and sombre meanals that were placed to our bands in the days of our childhood. One can unly envy lake Dr Johoson, ' the young dogs of this age

We are sure the poblishers could have found a more edifying illustrator for the lesson on Tennyson, than that of the poet sweeping his garden at Farrington. We have no doobt it will be seplaced in the next edition.

SCHOOL ARMONSTIC, BY CLEMENT JOYCE AND P H WYERS (EDWELD ARROLD) 4s. 6d

This is a welcome addition to the corlors number of books on 'ersthmetic' which have rerently appeared The authors have tried to further break down the harriers which diride the several parts of Flementary Mathematics by devoting a chapter to generalised arithmetic and freely using algebraical methods in the solution of problems and also by futroducing a good amount of the 'enthmetical' part of geometry and menau ration. Graphs are used only where they are found to be convenient or necessary. There are a good number of problems taken from practical [fe. are from "various trades and professions" As regards the teaching methods indicated in the book, we are glad to remark that their introduction to generalised arithmetic sod the illustration used in she solution of equations are excellent, but we are not able to say the same of their methods of dealing with multiplication and dirision by fractions and desimal. Though the hook is claimed to contain elementary nations of Algebra, we were not able to see anywhere a treatment of the multiplication or dirision by negative quentities. The illustrations and the general 'get-ph' are very attractive and there is a large collection of examination papers set by various examining holds in English

AIDS TO LAW SERIES: THE LIW OF ORLIGATIONS
IN BRITISH INDIA, Vol. 1—STATUTE LAW,
PART I. THE CONTRACT ACT. THE SERVING

PADT J. THE COMPRACY ACT, THE SPECIFIC RELIEFACY, AND THE NEGOTIABLE HATERDHAME ACT: BY S. VERKETACHRIHE, BA. M.L., ADVOCATA, HIGH COURT, MIDDLES, POBLIGHESSE; R. RIMA ATTER & CO., ESPLAHADE, MIDDLES, PYCE RL. 3.

The book before as is arideally the first instalment of a write of order to be published on the Law of Obligations to British Iodia. From the division specialization is British Iodia. From the division specialization of the British Iodia. So the Consequence of the book, one would take the earther plan to be to bring out some volumes on the Common Law of Obligations also in British Iodia. But, in his prefere, he tells us that he proposes to deal only with the third statements bearing on the law of Obligations also the British Iodia. When this is not Obligations in British Iodia. When this is not Obligation in British Iodia. When this is not observed the British Iodia. When this is not observed the British Iodia. When this is not observed the British Iodia. Show this is not observed the British Iodia. Show this is not included the reader.

Regarding the merits of the book, we era of opinion that it will be very neeful to students of law, for whom it seems to hese been primarily written. We see that the learned author has made several useful extracts from the suggestive notes contained in Dr. Stokes' Anglo-Indian Codes. He has also pointed out the differences between the English and the lucian law, wherever such differences require to be pointed out. The cases cited by him are very select and are of the latest decisions of the High Courts. The book would probably have been rendered more useful to the class of readers to be benefited by it, if the learned suther bad been less terse in his foot-notes. As it is, however, we are sure it will not fail to be en invaluable aid to all concerned in the study of our lew. The get-up of the book is reat and attractire. _____.

PUBLICATIONS RECEIVED.

A School Arithmetic, by A Clement Jones, M.A., and P. H. Wykes, M.A. Loudon; Arcold. 4s 6d.

Dramatic Scanes in Easy French, by Mrs. A. O. Lathem, London: Macmillan. 1.

Erckmann-Chatrien Le Blooms, by R. F. James,

B.A. London : Clive. 1s. 6d. Shekespeare's Tempest, by A. R. Weekes, M.A.

and F. Allas, BA. Londoo: Clive. 1s. 4d.
A Sonial History of India, by George Guest, BA.
London: Bell. 1s. 8d.

Preliminary French Course, by H. F. Chaytor M. A., and H. E. Truelore, B.A. London;

Clice. 2s. 6d.

Problem Papers to Arithmetic for Preparatory
Schools, by T. C. Smith, M.A. London: Bell.

Schools, by T. C. Smith, M.A. London 12011 In 6d. A First Course to Projective Geometry, by E. H.

Smart, M.A. London: Macmillan. 7s. 6d. Deutsches Heft: A Garman Note Book, by W. E.

Weber. Cambridge: University Press, 1s. 6d Pitman's Commercial Series: Readings in

Commercial Franch, L. set.; Readings of Commercial Franch, L. set.; Readings in Commercial Comman, L. set.; Readings in Commercial Orman, L. set.; Shorthand Instructor (Cantanary Edition), Sr. 63.; Bock-kreping for Begloners, Is.; How to write a Good Hand, Is. London: Pitmen.

High Roads of Literature, Introductory, 10d, Fourth Book, 1s. 6d, London: Nelson-

Pope's Essey on Man, adited by A. H. Thempson, M.A., FS.A, Cambridge: University Press.

The Children's Anthology of Verse, Part I, Justor, 4d. Intermediate Part 11, 4d., Senior, Part III, 4d. London: Mecmilleo.

Shekerpears's Much Ado About Nothing; edited by S. E. Goggin, M.A., and F. Alles, B.A. Loudon; Clive. 1s. 4d.

The Gaspel of St. Loke, edited by J. F. Richards, M.A., and T. Welker, M.A. London: Clive. 1s.

Exercises and Problems in English Ristory, by W. J. R. Othha, B.A. Cambridge: Univer-

eily Press. 2s. 6d.

Borke's Thoughts on the Canse of the Present
Discontent, added by W. Marison, M.A.
Landon, Clive. 2s. 6d.

London: Clive. 2s. 6d.

Preliminery English Course, by A.M. Walmsley,
Bl.A. London: Cliva. 1s. 6d.

Preliminary Geography, by E G Hodgkison, BA, FRGS, London Clive 1: 6d

Victor of Victorine by Madame JG Frazer London Macmillen. 1s

A First Book of Practicel Mathematics, by T S Usber Wood, B Sc. and C J. A Trimble, BA London Macmillan Is 6d

The School Algebra (Metriculetion Edition) by A G Cracknell, M A BSc, F.C P. London, Cive 4: 6d

British Administration in India, by C. Anderson, M. A. Bombay. Mecmillen. Re. 1, 12, 0. The Continent of Europa, by Laonel. W. Lyde.

The Continent of Europs, by Laonel W. Lyde, MA, FRGS London Macmillan. 7s 6d net

A Geography of the British Empire, by W L Bauting M A, and H Collen, M A Cam bridge University Press 3/6d

Indian Educational Hotes MADRAS

The American College Malaysia Samaj-The 50th brindey of Him Bygbree the Labarapsh of Trevancers as the Bygbree the Labarapsh of Trevancers as Velegale Stoney Madox were American Cogather on the 6th instant in the Assembly Hall of the College Mr. N. P. Goyala Menon, Beret-Law, presided lawy respectable gentlemen were presented in the occasion

The precedings of the setuing commenced with a Scotal. The Malaysis students of the Cellege entertained those present with humorous special magic, farse and damh thow After the annual report of the working of the Stamp; daring the push raw are said, Mr. A. Kumser Fillst, a member of the Stam; rasdans away on Toyaliy' gaving three with an account the practice Bertal and market the Stamp; and the property of the Stamp; and the stamp of the Stamp; and the stamp of the Sta

Versus were composed for the occasion by the Malaysiam Paudit of the Cellegu. The Institution was brought to a closewith the singlegung Venctors Mangalam, the National Antham of Travencore

A telegram was sent to Itis Highnass the Maherajab of Transcorer The message was:—"The kindent subjects of His Oracions Highness read log in the American College, Madera, in meeting assembled, pray long his sort happy reign. May flock hiese the Grown Priore."

The Sri Merthenda Exhibition of Pudukhottai. bas bern in existence from the year 1911 and fa an expension of the Sri Sereswati Exhibition of

Padokkotias which was held for several years before 1911 m this Native State. The present Exhibition bas been organised for the encouragement of arts radustries, agriculture and education both within and ontside the State Exhibits have been invited from far and near from private individuals and public bodies interested in this advancement of finding Economic and Educational conditions. Thu scope of the Exhibition which is detailed in section 7 of the prospertus is various and full New methods and processes are attempted to be propagated by the delivery of lectures by the holding of demon strations and by the distribution of pamphlets free of cost For the encouragement of the exhibitors & decent provision amounting to over Rs I 400 has been made for medals and money prizes The required fands for the management of the Fxbibition are met from State grants and the Pudnkkotter Dorbar in presone ng it as a State coorern have evinced a desire to simply emporage arts abscatton industrier, and agreculture. It is hoped that the Exhibition would prove useful and successful Intending skibitors and such as are willing to take part in any other memors in the Exhibition may come municate with the Secretary of the Eshibition for further information

Tanjore District Teachers' Association—The following are the proceedings of the seventh meeting of the following are the proceedings of the seventh meeting of the Town High School, Kumb-kooem at 8 rm, on Saturday the 20th August 1913 M. R.F. Ro Babdor S. Appu Sestivar Association

MR Ry Ro. Babedor S. Appu Setting Verget,

A. presided The mesting was well stiended,

Ratiy a hondrad teacher a from Biyisi Maywarem,

Tirokattopalle, Papenseam, ato, being present,

Mr. V Mehadeva Aiyer DA LT read a paper on the S S L C Marking System, which was much discussed criticised, and commented upon by Mesors S Sciouses Alyer and Rajam Aiyanger of Tanjore Messes K. Seshu Alyar, M Venkatarama Airar N P Krishnesemi Aiyar of Mayayaram. and Mr b Narayanasami Aiyar of Kumbakonam Discussion chiefly torsed on (1) the marking of enswers to oral questions (ii) the apportionment of marks between the occusional examinations of the year on the nes hand, and the annual examination on the other In regard to orel questioning, there was common agreement respecting its great educonceded that for marking purposes arel answers were for too slusive, and the marks awarded cannot be very ret able and accorate, and for that fraion the percentage of merks of owed to oral questioning might be reduced so low as not to affect the total number of marks In regard to (ii) it was maintaloed by some that throccasional resminst one were nf grant value on an far so they angendered and fortered regular habits of study

The Chairman closed the discussion of the meriing by an interating speech astting furth the ear-filece of the present system the influence of which is only being partially and is not wholly fell. The school marks decover a far truper estimate of the boys than the public examination, as the examinors in the latter case are very apt to be indifferent. It was matter for deep regret that the achool marks should be ignored, if not divergendand the second of the second of the second admission of boys, and disloyed in determining the admission of boys, and disloyed the second of the this axis to record its regret and make a representation to the Government is this matter.

Mr. N Voukstachariar, EA, LT, of the Tirokatupaile High School naxe rand a paper on the "School Time-table." It was too late, and the discussion on 18 was consequently postpuned to the next meeting which, it was audomood, will be hald

at Tirokattupalle.

Bandes the light refreshments served them before
the meating commanced, the teachers were provided
with a sumptions diener that night in the native
ligh School premises.

Sri Rajen's High School, Tunt. - The Sri Rajeh's High School, Tuni, was inspected by C. Espeined, E.q. M a , Inspector of Schools, let Circle so the last week of September. He expressed his estimation at the increase to the strength and the efficiency of the lestitution. The members of the Debating Society atteched to the echool, celebrated the 2nd Anniversary of the Association on Friday, the 26th uitime, with the Inspector of Schools in the cher. The meeting was well attended by all the alits of the town. The Secretary read the Annual report which showed that come useful work was done during the year. Some humarous work was done daring the year. Some numbrous trentaining and dislogues haring hem gow through. Mr. M. Vreibhadrs Kan, H. A. an atentain teacher of the school, addressed that students on the advantages of the Desking Societies and gars them some valuable advantage some some start of the school of the members for giving him the pleasure of preaiding over the meeting and praised the Rum for her hemoroleot deeds, especially the maintenance of the High School the Vedro School and the Choultry for the poor. The meeting terminated with the usual vote of thanks. As a part of that programme, the members of the Society put on boards the whole play of "Comedy of Errors" on the night of the let instant, before an enlightened audience, consisting, in particular, of sume Enropean ladies and gentleman. The performance was thoroughly appreciated by all present and was prounonced to be a aplended encours.

Government Grante

The Government associon the proposed expenditore of Rs. 1,500 for the purchase of the books required for the Presidency College from the special Imperial grant of 23 lakhs for education provided in the Civil Badget Ettimate for 1918.14. The Government approve the proposals of the Director of Fable Iostraction for the dustribution of a subsidy of Bs 11,96,000 to the various District Bards and Moneigal Conceils for the construction of elementary behad building. They also section the payment of the construction of section the payment of the construction of common garden and moseum for the elementary schools in the moneignality.

The Accounter-Clinese! is requested to place the amounts appelled at the disposal of the local bodies concerned. Eight lakes not of the som of 12 lakes now ancetioned with the control of the som of 12 lakes now ancetioned in the control of the som of 12 lakes for effective provided in the Orril Bedget Estimate for 1913-4 and the balance of 4 lakes from the provision of its 44,6457 mads under 45-A. Orril Yarki-med Market and the balance of 4 lakes from the provision of its 44,6457 mads under 45-A. Orril Yarki-med beliefs of the same hogget.

The attention of all local bodies noncerned to drawn to paragraph 3 of U. O. No. 165, dated 20th Pehrusery 1913, and U. O. No. 344, dated 21st April, 1913

The Covernment cancilon a grant not exceeding one-half of the actual expenditure nor Ra. 3,000 towards the cost of construction of laboratory and sectors roomy in connection with the London Mission Rigis Sobod, Selam.

The Garrenment appears the proposed of the Dutries Board of Taglyana as steed in High School buildings at Turwaign so as to practice for the increase in has number of pupils asking admission thereto. The pleas and estimate amounting the No. 270-Dig Audit of the April 1910, are, however, indequate for the purpose. These fresh plans here since been prapared by the Dutil Registers, U.A. section 1910, and the contract of the purpose of the purpose of the purpose of the section of the tendence of the purpose of the section of the tendence of the section of the tendence of the section of the Imperial Great of Zellakin provided in the Girm Badges Estimates.

On complation the building will remain the property of Government, but will be leaf to the food Board for makin connection with the High School.

Orders regarding the preparation of datailed plans and estimates and the execution of the work wiff issue in the Public Works Department.

The Government approve the modifications proposed by the Executive Engineer. Thuevelly division, in the plans and estimates for the outhouses attached to the St John's Guils' High School. Numerath.

The amount of the grant, sacctioned to G. O. No 6, Educational, dated 6th Jenoary 1910; as modified by G. No. 85, Educational, dated 15th-Dacechar 1911, will, as a special case, he raised from Ez. 4835 to Re. 7,073.

The Government are pleased to section a grant not niceeding one half of the action expendence nor Rs 5 920 towards the cost of construction of a bookel to connection with the Hindu High School, Masolipatum, sobject to the following conditions—
(1) that in carrying out the work the angestions

of the Chief Engineer are adopted, and
(2) that all the conditions prescribed in the
Gractin Aid Code have here doly complied with
On the above conditions heigg faifiled the
grant will be paid as foods become available

The Government senction an expenditure not exceeding Rs 11 836 to the suggestion in the current year for sebustianing games in the Government Colleges and Secondary Schools and approve the Director's proposal to meet the expenditure from the special additional grant of Ea 23 00 000 sanc toned by the Government of Idual

Except the buildings at the Toschers' Callege, the works may be seconted departmentally The former will be oedertaken by the Palkin Works Department, in which department orders will sens regarding the preparation of plains and sammates

Orders regarding the provision of foods will issue in the kinsonial Department.
The expenditure referred to 10 persgraph 3 of

The expecditure reterred to to persuand of the Director's letter will be met from the Poblic Works Department bodget

The Government here secutioned a grant of Ra, 5300 towards the construction of a dorantic and refeatory rooms to be stateched to the Roman Gatholio Boarding and Training School, Trichiospoly

The Government sanction the continuance of the fixed grant of Rs 5 000 per annew to the Anjaman. Mofid Abla I slam for the correct year on the same conditions as those approved in G No. 71, Educational, dated 12th February 1993

The Government approve the proposals of the Director of Poblic Instruction in institute additional scholarships for students in Secondary Schools and Colleges, general, and the proposed allotment in the correct year of a soom of E. 4,564 for this purpose from the Imperial grant of 23 lakes provided in the correct year's budget

A Pracedistribution in Tenjore — The acoust distribution of prizes to the guist of the Mishester Guide School was bed stitle new half of Koteserstern Guide School was bed stitle new half of Koteserstern Tenjore, and the stitle stitle

gath some advices. It was a matter of pride that commitme ago one of the popple. Mer Kansalu Bai shored great skill in playing opto the vine before His Highests the Materials of Mysore who is appreciation of her performance made her valochle presents. In cono loune, the President extorted the spinis to keep themselves abress the times and pursue a tayly decis so that they may be are comple pursue a tayly decis so that they may be are comple supers and directs to the guids brought the proceedings to a close

Coles' Memorial High School -- The American Baptist Mission High School named after Dr Coles of America on account of his magnificent benefactions to the school, is doing good work

The print distribution ceremony of the school took place as the presence of a distinguished authoric stary of the leading scotty of the town were present on the accession. Before the prince were distributed, the students, and they were excellent. Among the the students, and they were excellent. Among the American special mention may be made of V.A. Veckussramen, the subsided one of Mr. V. K. American and A. John and the Hollecton of the Northero Circumstance and the American and the American School of the School of

The fiev W. L. Fergueon, M.A., D.D., who presided at the prize-distribution function, delivered on aloqueous speech congretolating the prime winners and group some wholesome source to them.

The Government have directed the revealed terreselstops of selections from speeches of Their Imperies Alleysites to be protect and distributed among educational institutions and village officers in the Prosideory

The Victoria College Mostel—The hostel has been opened There are short 80 boarders at present. The hostel counists of two sections, Brish mas and non-Sections, to two sections, Brish mas and non-Sections to the accusion. The students have repaired an both the sections. The students have result as the students have been supported by the boats. Early in the morning hefore 7 defects a complete some size of the students are supported by the students of the support of the students of the support of the students of the support of the students of the students

There are 50 rooms in all for the students Only two stedente are allewed to occupy such room Every stedent is furnished with a chair and a table with drawers

The Hostel establishment consists of a warden, a deputy warden, a manager, cooks, set of the Principal right College is always to be the Warden Mr. P. N. Uznikrubna Menon, the list Assistant sod the History backer of the High School Department is appointed as the Diputy Warden, who is given agaillowance of Hs. 25 per mecosm.

Two Prize-distributions -The first Prize-distribution of the Kulitalai Board Bigh School came off in the school premises and the Ray. A F Gardiner, M.A. Priocipal of the S P. G. College, Trichmopoly, presided on the occasion.

The proceedings opened with the reading of the Appral Report read by the Beedmaster which referred to the progress of the institution and the seristance rendered by Mr. R Norayaos Iyer. I C S. Sub-Collector of Trichinopoly who seved the school from an impeoding serious situation by collecting Rs. 15,000 for its building.

The President then distributed prizes to the successful students of the school and efterwards made a speech discussing some espects of the educational problems and the Report presented by the Headmoster.

The ceremony of distributing prizes to the students of the Zemorin's College came off with Mr. S G. Roberts, I C S., District and Sessions Judge, North Melabar, in the chair. The College building and its premises had been tastefully decorated for the occasion with figs, banting, and evergreens, and there was a large and distinguished gethering, which included simost all the European ledies and gentlemen of the etation. The proceedings commenced with the reading of the report by Mr F. Norton Fagge, B A., the Pencipal, who stated that he College was misting reported at tides towards the path of progress in every respect and that the verious ectivities of the authorities of the Institution left nothing to be desired in the matter of promding boarding and other facilities to the students. A hoge hostel at a cost of Re 16,000 was being constructed with all expeditioneness. He was taking a personal interest in the physical development of the students by stimulating them to take an active part lo athletic sports, and had managed, through the co-operation ut his studeots, to get down two silver cops to be presented to the wooding teams in the Badminton and Foothell games of the verious house sintow bich the whole institution had been divided for the porpose of competition. He had a desire to jocressa. the number of cape, when funds permitted, so that such cup might be kept sport for each gome. He also referred to the Meteorological Society formed by him cery recently, in addition to the existing Scientific, Historical and Dabsting Societies Toa strength of the institution continued to be on the increase, and the results obtained in the last public examinations were very estimactory when compared with those of other jostitutions in the district.

OALCUTTA.

Celeuita Chemical Club -The annual meeting of the Calcutta Chemical Club was held at the Chemical Lecture Theatre, Presidency College, Dr. Aghor Nath Chatterji presiding. De. P. U. Boy delivered an address on The Progress of Chemistry

in Bengel in 1912 13-the proposed University College of Science. He said that the year moder roview had been so eventful one for more reasons than one. There had been a growing and steady increase in the number of advanced stodents who were actions to take part in original investigations. Since last year, some 60 papers had been communicated to the Chrmien | Societies of London and New York, the Asiatic Society of Bengal, the Zaitschrift für Anorganische Chemis, Zeitschrift für Blectroche-min und Zeitschrift fur Physikalische Chemie. It wes a matter for stocera congretulation that the cootributions of several papils in the Chemical Laboratory of the Presidency College were meeting with welcome and bospitable reception in the columns of the above journals Those who, after taking the highest degree of the University in Science, had spent two or three years in original investigation at the Laboratory of the Presidency College, had never had any serious cause of complaint over from the wordly point of view. The Bengel Chemical and Pharmacentical Works had already absorbed as meny se fise chemister—ell of them graduates in science and alomal of the Presidency College. In das time meny more chemical industries would spring op end find employment for scores of chemists. The speaker in nonclusion referred to the researches corried out by students for the M. So degree.

Konsteen High School,-The distribution of prizes of the Koosices High School tonk place in the pre mises of the school The popular District Megistrets S. C. Makerjee, Erq. presided After songs and recutations the ennual report was read out and the prices incloding some speciel prices areaded by the Secretary and other local gentlemen, wers given away by the President. The Additional Inspector of Schools, the Assistant Police Superiotendent simust all the local geotlamen and Rai Kunjalel Seniel Behadur of Kumerkhelt were present. The President in addressing the meeting noticed from the report that the echool was gradually improving and the result of the last Matriculation examination was very good. The Makomedan bouch building attached to the school and the sew fliedu Hostel building for which the Government grant of Re 18,000 has been obtained and when the semination of th and which to nearing its completion show how the Secretary, the President and the local public take interest for the school.

Wa are glad to learn that it is proposed, to hold a Beience Congress to the rooms of the Asistin Society of Bengal during the week ending James 17th, 1914 The following draft rules have been specially for the following draft rules have been signed to That the Congress should so far as possible be purely scientific. That suppost be seconded, the Congress be divided into accuson dealing with verious branches of science. That there be a obscription of Ra. 5.

It is ennounced that Dr J G Jennings, the Processed of the local Murr College, is to succeed Mr Hallward as Director of Public Instruction in Behar end Orissa

Post-graduate teaching -The elaborate and exhaustive statement on Post graduate tearbing. with which the Vice Chancellor prefaced the proceedings of the recent Benate mueting has been very opportune no doubt in view of the strenuous times the Calcutta University is just now passing through Not only have thuoderbolts after thunderbolts been forged and hurled on its deroted head by the appearer gods from their Olympic leights but the amelier fry also bave chosen this exect moment for throwing mud at it -beautifully illustrating the Bengalee adage that while the elephant is stuck in e quegmiro even the bate kick at him The s ate ment by Sir Ashutosh discloses that the Calcutts University is carrying out its Statute imposed doty of orpanding staell from a morely examining into a teaching body in no niggardly or recalculrant apirit This ought to satisfy all reasonable mee interest. ed in its welfare But as to whother it will astiefy the bate referred to above that is quits another thing. After all the Vice Chancellora statement, in spite of all that can be said in its ferour, labours under one suprems disquelification For, does it not show that the various Professorahipy Assestant Professorahips Read-rahips and Lectureships are bestawed on the consideration of martt alone, cegardless of case, creed or colour? Does it not elso show that there is a prepondarance of the Indian element in the list estalogued by the Vice-Chencellor -than which nothing more importment can he conceived on the part of an Indian Univer aity ?-Amrila Barrar Lainka,

BOMBAY.

New Architectural Scholarships — The Gosrometo of India has of the Conference of Linda has of the Conference of Oricotal that held at Similar India 1911,

Dr D D Quue Ph D, a lormar student of the Poom Eurgussuu College who has after three years' atay at Leipz g, just come back, says in the Fergussou Collego Magazine that Germany effords excentionel facilities to Indian students Dr. Guus briefig enems up the advantages thus:-

III) You gai as good a scientific education here as I non-heat them— any other advanced Erropean cunter (2) Faccation is comparatively because here then no ther constraints (3) You have been been been in other constraints. (3) You have been been and my contraints of the second there have been sery less Indian states there have been very less Indian states there have been very less Indian states there have been very less Indian states there and impression on G reman educationals and reinfluint (4) There are not recial or only only of the precision of the second of the

ALLAHABAD

Primary Education Committee .- The report of the Permary Education Committee bes been published together with the esports of the Female Fdoca tion Sah Committee and the Committee on Educational Hysiene and a number of other papers, all of which cover 137 pages of the last pumber of the Government Genetia The report of Mr Peggott's Committee corers \$5 pages and in it are attached Commutes correct 35 pages and that are attracted a busterical note by the Hon Dr Sundar Lul e note by Mr Streatfe ld on the organization of presery echools, one by Mr Frementle on curel education a note by the Hon Biba Genga Presed Varms on the Isuguege question and a minute of dissent by the Hon Monahl Argher Ale Khan and the Rept of Pirpur The report of the Femala Edgouing Sab Committee covers nine pages and traigned Mr Piggott Miss Stuert, Mr S P Sanyal and Mies V Yader Separate notes are appended by He Pigrot Mr Motilal Nebru and Bebn Junt Swarup Foor pages are covered by the report of the Sub Committee for School Bu Idings of which lie Francials was the Chairman The which are resulting was the constituent of the Commutee on Esecutional Hygiene was composed of Leen Col Young I M S Major Graham Captain Dunn Mr H Banister, and Rsi Gokul Pessad They make a large number of recommend. stions, the most important, being the periodical suspection of the sanitary condition of all schools and the periodical medical inspection of scholars by qualified doctors,

MYSORE

Scholarablas — The Government of Mysore have desided to effer a scholarship for training a graduate in scharari and allied work. The aelected candidate will be required to pass the examination prescribed by the Institute of Actuaries, London for excellment as a * Fellow of the Institute and also to undergo, if required, a course of practical

treining la scinsrist and allied work. The total period of sludy and training will be about 4 years and a part of this presed will have to be spent in England For the period of training in India tha echolarship will be Re. 100 per mensem, and for the period in England £200 per sonom, and accord class Railway lates and ocean passage will be given If the scholar acquite himself ereditable, he will be taken into the service of the Mysore Oprarnment.

Mahareni Girle' School .- The Improvement Trust Board has granted a good site free of cost for the building of the Maliarani Girls' School. This argurs well for the future and should specurege the active Secretary Mrs. Rangamma while it should, at the same time, make her fully resine her great responsibilities in the matter. I hope other members of the Mission will rise equal to the occasion to making this e aperete.

Merimelieppe's High School :- The Marimellappa's High School is use of the largest meliappia ligh Stonon is use ct tan iargess achools in the Frovince. The strength of the school comes to over 600. The satisfulshment charges landling contingencie, etc., smooned has year to Re 13,172. There are 60 Lingsyst students to the achool. The Lingsyst atoldents studying in different colleges and achoel in nod custode the l'rovince are given scholarables. The eccommodetion of the echool having been insufficient, a second and a third storey were orested at a cost of over Ba 10,000. The building is considered to be one of the best buildings in the city. The veters Headmater Mr Ventsterinberge is taking of very great laterest in promoting the cause of education in the school

COORIN.

A Prize-d'atribution -- The silvae inbites of the Rents Cruz High School, an institution started in 1888 by the Padroado Mission in Cochin, was celabrated recently in a manuer belitting the occasion. The first item of the celebration was the distribution of prizes to the pupits moder the distinguished presidency of His Lordship the Right Rev. the Bishop of Cochin The school boilding and the premises wers professly decorated, some 400 invitations were issued and before the appointed hour the Hall was packed with people. The Bishop accompanied by the Bar. Father Vincent Mendes Da Souza, his Secretary, arrived ponetosily at 8 and he was received by the Manager, Very Ray. Father P. Adunces, S. J. and the Headmanter, Ray. Father William Arkwright, S J., and conducted to a special seat in the Hall. The proceedings of the avening hegan with a song "What I has for" by the choir of St. Creilie which was rendered in excellent etyle and was much appreciated. Rry. Father Arkwright. the Bradmaster, read the report of the Menager.

The Report gave a short history of the school referred to the three past Managers and six Head-

meeters in appreciative terms and said that from 200 pupils in the first year the number had risen to 700 in the present year. After dwelling on the progress schiered in the various subjects taught in the school, the report that it was proposed not to naglect the teaching of Malayalam and to drop the teaching of fatin The school was not a European School and Malayslam would be made an obligatory atedy. A good account of the school cadeta was given and thanks were expressed for Octerament

After the reading of the report and enother song, the Bishop gare away the prises to the winners where names were announced by the liesdmaster Mr. Give Barlow, M.A., Principal of the Frenkulum College, who presided at the Princi-distribution to 1912, delirered an astempore speech in which he complimented the school enthurities on the soccess of the institution and the nights contertainment and the successful jobiles celebration.

TRAVANCORE.

The College Day .- The past and present a adente of Il. If The Mahaesiy's College celebrated their College Day on the 7th Instant, at the public meeting held neder the presidency of hir A R. Raje Raje Verme, M A. Professor of Sanekrit and Saperla-tendent of Dravidisa languages. Among others present were the Dewen and the Chief Jostice. Reversal speeches were rande. The f-llowing street is meda from the speech of -- Mr. M. Raje Eja Verme, M. A. Under Secretary to Government—

I highly appreciate the homon which the College

To the same of the content of the co affording an opportunity to the past and present

atudents to know each other

When I stand in this time-honoured half, my memory runs back for over quarter of a century, when the late Reverend Dr. Harvey controlled not only this College and the High School attached thereto, but all the English Schoole in the State. with that strict discipline and paternal affection which were all his own. Older boye than myself would also remember that tall, gigantic Scotchman Mr. John Ross, whom, as a boy, in the Special Schoul at Marellkara, I had learned to look open with a festing of terror. A shake of their flowing beard had more significance to es than a hundred Codes and a thousand Standing Orders Though in body, these ratesens have left on their spirit yet lives in as and guides as each in our walk of life. Is is indeed a consolation to think that some at least of our old preceptors ere living, such of whom, le epite of the change of times and environments, had laboured hard for our dear College With his ever amiling face and plassant conversations, Mr H. N. Read, unconsciously took us out from the groove

of the old method of teaching and led the way for the introduction of the modern practical aretem His advent really marks the commescement of the modernisation of our College To him we awe the development of our out door games. He talked and played with his students, cracked tokes with them, was ever a happy companion to them. He tanget not by formal lectures delivered the hour nor by the dictation of elaborate notes, but by pleasant talks in and out of the class. In a period when the mants for crem and written communications was runulog high, Mr Read boldly, with that liberal spirit characteristic of an English University man, introduced a change of method quite against tha taste of the then educationists, but which it is the sudeavour of every one unw to follow Another Scotchmau Dr A O Mitchell, worked up a complete revolution in our educational agetem. His influence was not confined to this College or this State was felt all over the Presidency His clear intallect, thorough mastery of details and prodigious energy. made him one of the greatest of edocationists

INDIA (GENERAL)

Indian students proceeding to Europe—It has the some to the notice of the Government of India has some misoprobusion suits with regard to the instabling of the orders governing the grant of certificates of identity to Indian students and others, constand on the resolutions of the Home Devices, constand on the resolutions of the Home Devices, and the students are students and the students and the students are students and the students and the students are students as the students are students and the students are students are students and the students are students and the students are stu

2 The orders contained in those resolutions were intended to apply only to Indiana of some status proceeding to Europe the United States of America, or Japan for the purposes of study, for pleasure or on business and not to persone desirone of emigrating to those or other countries in search of manual employment even though sofficiently well to do to he able to pay their own fares The latter class of persons, instead of receiving the encouragement or assistance which may be implied by the issue to them of certificates of identity, shoold be werned of the attendent risks and strongly advised not to amigrate unless they have receised definite and reliable information that rempacrative work will be found for them in the country to which they are destined

they are desired 3 Local Governments and Administrations are requested to give wide publicity to the tenor of these orders.

Literary Notes

Forthcoming Books of the University Totorial

A new and solvered edition of the Antialogy of Pagish. Fers will be published during the suturn. This book was arrived if seen of the Real of Elections in the Real of Elections of the Real of Elections and American Supplement to text books in literature and has, as a result, been very widely adopted in the mass which of the Supplement of the hooks will be be stateded to cater the new matter. The price of the new edition will be 2 of the new edition will be 2 of the new children will be 2 of the new childre

The Interesty Tetorial Frees bones to begin a series of new and moders works an Economics and kindred subjects by the publication in the suring of the publication of the suring of the whole subject and the This book will be a full and oncries treatment of the whole subject, and will lay special stress on the developments of the suscients to entary. An addiduction of the suring of the suring the suring press will be A Busing of Elementary Education in England and Wales

A book on Chemical Calculations is now in preparation. The holyect of this volonas is to give a simple account of the typical calculations required as made account of the typical calculations are conmediate and cost degree semimations with numerous executes for practice. The according coldes the account theory, demical aquivalents, and the chemical of physical chemistry. Hesers Macrollina & Cos accounts the following

forthcoming hooks—
The Works of Tennyson Author's annotated Phinton Edited with Hamour by Hallam, Lord Hallam, Ha

Meany Longmany Green & Co 's monocoment, The Making of the Australian Commonwealth (1839 1900) A Stage in the Growth of the Empire by IR Wive, Problems of Empire Papers and Additional Physics of Empire Papers and Additional Physics of Papers and Additional Physics of South African Colomisation and of its Davelopment toward, tha Data from the Enricht Time to 1837, by G E COT, MA, training in actuarial and allied work. The total period of study and training will be about 4 years and a part of this presed will have to be spect in England For the period of training in India the scholarship will be Rr. 100 per meusem, and for the period to England £200 prr enumm, and accoud class Railway fares and ocean passage will be given If the acholar acquita himsell creditably, he will be taken into the service of the Mraore Government,

Meharent Girle' School.—The Improvement Trust Board has granted a good site free of cost for the building of the Maharani Girls' School. This acgure well for the future and should encourage the active Secretary Mrs. Rangemma while it should, at the same time, make her fully realme her great responsibilities in the matter I hope other members of the Mission will rise equal to the occasion in making this e anccesa.

Merimelieppe's High School:-The Mari-mellappe's High School is one of the largest achools to the Provioca. The atrength of the achool comes to over 600. The establishment charges including contingencies, etc., emounted last year to Re 13,172. There are 60 Lingayat et ideote in the school. The Lingayat students studying in different colleges and echools in and counds the Province ere given scholerships The eccommodation of the school having been insufficient, a second and a third storey were erected at a cost of over Rs 10,000. The building is considered to be one of the best buildings in the city. The veteran Headmaster Mr Venkatakrishnappe is taking a very great luterest in promoting the cause of adocation in the achool

COORIN.

A Prize-d'atribution - The aitrer joblice of the Saota Croz Iligh School, an institution aterted in 1888 by the Padroade Mission is Cochin, was celebrated recently in a manner belitting the occasion. The first item of the criebration was the distribution of prizes to the pupils under the distinguished presidency of His Lordship the Right Bev. the Bishop of Cochin. The school building and the premiaes were profusely decorated, some 400 invitations were insued and bafore the appointed bour the Hall was packed with people. The Bishop accompanied by the Ray. Father Vincent Mendez De Sonza, bie Secretary, arrived pouctually at 8 and be was received by the Manager, Very Ray. Father he was received up the sunnager, very near, rather P. Actiones, S. J. and the Headmaster, Rev. Father William Arkwright, S. J., and conducted to a special seat in the Hall. This proceeding as of the evaning began with a song "What I live for" by the choir of St. Cecilia which was rendered in excellent style and was much appreciated. Rev. Father Arkweight, the Headmaster, read the report of the Manager.

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After the reading of the report and enother song, the Bishop gave away the prizes to the winners where names were announced by the Headmaster Mr. Glyn Barlow, MA, Principal of tha Ernskulam College, whu presided at the Prize-distribution in 1912, delivered an extempore speech in which he complimented the echool authorities on the encouse of the institution and the nights' entertainment and the successful jobiles celebration.

TRAVANCORE.

The College Day .- The past and present a ndents of II. II The Mabaraji's College celebrated their of H. H. The Maharaj's College celebrates nouse College Day on the 7th instant, at the public meeting, held noder the presidency of Mr. A. B. Ede Byle Varieties, M.A. Professor of Sanskrit and Sportfor tendent of Dravidian languages. Among others present were the Dawan and the Chief Jostice. Several among the ware made. The Influence stricts Several speeches were made. The fellowing extract le made from the speech of :- Mr. M Raja Raja

Verme, w . Under Secretary to Government I highly appreciate the hononr which the College Day Committee has conferred on me to day and thank them amorraly for the same I was present et the first preliminary mreting which Dr. Mitchell called together to consider the question of institution this annual function with the aspress chircle of effording an opportunity to the peat and present

etudents to know each other When I stand in this time-honoured ball, my memory runs back for over quarter of a century, when the late Reverend Dr. Harvay controlled not only this College and the High School ettached thereto, but all the English Schools in the State. with that atrict discipline and paternal affection which were all his own. Older hoys than mysalf would elan remumber that tall, gigantio Scotchman. Mr. John Ross, whom, as a boy, in the Special School at Maveilkara, I had learned to look upon with a feeling of terror. A abake of their flowing beard had more significance to us than a bundred Codes and a thousand Standing Orders , Though it body, these veterana have left us, thrir spirit yet lives in na and guides on each in our walk of life. Is is indeed a consolation to think that some at least of our old preceptors are living, each of whom, in apite of the chaoga of times and enricements, had With bis ever laboured hard for our dear College. amiling face and pleasant conversations, Mr H. N. Read, unconsciously took us out from the groove Messrs Kegan Psul, Trench, Trübner end Co Ltd., here in preparation e new children of "Roda Annals of Rajasthan". This famons Indian Clesson has been long out of print, and is dedicated by permission to ills Highness Maharajah Rans of Jablawae

SCHOOL AND COLLEGE SPORTING NEWS

Annual Sports in Kumbakonum

The Inter Collegate Athleto Sports for this great came of at the spectous playground as the Government Collega premises here and all the spectous characteristics and all the specific companies of the Specific Collegate and the Specific Companies of the Specific Collegate Co

Ernakulam Inter School Sports

As the appended hets will show, the Sports were use the same, for the D M S Tricher water some of the stophics permanently, and the College boys were into the ving say. The Ragabs Sheild was won and will find a local laboration and an honoured name in Thentin, but the Radapspin Sheild west to the College siter a bettle royat which will be long remembered The Chitter dan or wisked off with

the Daviet Tue of Wer Cup Mr Daviet Cup of Mr Davie took the place of Mr Barlow for the alternon as Mr Barlow for the authoriton as Mr Barlow for the sum of the sum

Mr Davey of Alleppy took command of the army of judges and made progress rapid Mr S K.

Subrements lyer of the College was again, as in previous years, a most efficient and successful hecretary of the Inter School Sports Committee

West Coast Badmuton Tournment
This Tournament open to all the team of the
Colleges Schools and recognised private clube of
the West Coast (South Canara, Mislahar, Cochie,
Travascers and Combatore inclusive), will commence on the 18th Dreecher 18th The astrance
mence are the 18th Dreecher 18th The astrance
estrance Ires must be sent to E. R. Naccess. Secrestry, West Coast Badmuton Tournament Coverement School of Commerce Calcuit, on or before the
18th Novembor 18th The winning teams will be
presented with Silver Media swarded by the
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Frest Const Foot-Rull Tournament

The Tourisment for the "Thio Sahlo S Veldyanth Ayyar (Dap will commonce on 18th December, 1913 This is open to all teams of the recogneed. Schools and Colleger on the West Coast Combined and Colleger on the West Coast Combined Combined Combined Combined Combined Combined Combined Combined For the Combined Combined Combined per form All applies thous together with the catricter fees must be sent to D N Netseno Secretary West Coast Food Buil Tournament (Government School of Commerce Calcut, one offer the 18th Nevember, 1913 The winning team will be one and the players of their team such with a silver medal

Mysors Interested Sports

The following are some of the results of games played as consection with the Deasty Tournaments—On the Joth moreing the Maharaya Gollege, \$Z sam not Marmallapsa High School (A sam) the gains retibling in success for the former by played the Y M E Unees, the game retiling in a draw neither seds having secred On the 11th morning the play was between the Maharaya Gollege and R B A N is School the game being Gerson match between the School the game being draw match between the Greenest and the Y M E Unon was resomed, the former scoring by 2 goals and I. Bag man on the 12th morning was between teams representing the Richards and the green came representing the Richards and the green score that the contract of the state with the match by 2 goals to 7th.

The Bangulors Inter School Tournament.

It was believed that the Cottonian team had a really fair chance of heating St Josepha College in the Inter School Tournament for the Cucket Trophs.

It was a particularly hot day as play opened on the Central College ground and the College went in to bat first. When their third wicket fell the prospects of the side were not beight, for Seston,

King's College, Cambridge; Professor in Rhodes University College, Grabamatowo, South Africa. In Pope Volumes. Vol II. With 33 Illustrations In rope volumes. Vol. 1. With 32 inflativations. The Life of William Fitt, Earl of Chathem, by Basil Williams With Portraits and Maps. 2 Vole.; Easays on Men and Matters, by Wilfred Weed. Amongst Mesers Macmillane List of New Books.

to be published in Gatober 1913 ere :-The Life of Edward Bulwer, First Lord Lytton,

by his Grandson; The Life of Florence Nightingsle, by Sir Edward Cook; Songs from Booke, by Rudyard Kipling; Just So Stories, by Radyard Kipling; The Fairy Book The best popular Felry Stories and Market Stories of Parket Stories, by Warwick Coble; Essays Political and Literary, by the Earl of Cromer, ou, acs; The Likerer, by the Earl of Gromer, ox.s.c.s., The Works of Temposon Author's suncisted Edition. Edited with Memoir by Billom, Lord Temposon; The Greener's Moon, Chall Yoran, by Richiderands The Greener's Moon, Chall Yoran, by Richiderands Hengall, The Graftener. Posma by Richiderands Tager, Translated by the Author from the Original Bengall, Bidden's The Resilesting of Life. A Series of Lectures by Richideranth Tagers, Jane Anton, by F. W. Gordich, Vice-Porcess of Zeno Gollege, A Changed Sian, The Williag Bonatic Advances and Millowing and the Com-lements of the Company of the Com-tent of the Company of the Com-lements of the Company of the Com-tent of the Company of the Com-te Romanto Adventores of a Milkensid, by Toonus Hardy; Statistics, by the lats Six Robert Giffes, K.O.S., F.E.S. Zeliefa, with an Introduction, by Harry Higer. OS; with the suspicesse of Goorne Harry Higer. OS; with the suspicesse of Goorne by Bernard Mullet, G.Et., A Treatise on Chamilerr, by Bernard Mullet, G.Et., A Treatise on Chamilerr, by the Right Hon. Ser. Lie. Elsono, F.R.S., and O Schoriemmer, F.R.S. Vol. 11. The Hetale. New deline completely revised by the Right Hon. Siz. E. E. Descon, F.R.S., and others; A Declement J. Comput.

Important new books of Mesers, Longmans,

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the territorial and other changes introduced scon after the Dorbar, and those who know Sie Coortensy's style of weiting hardly require to be told that the scenant is thoroughly ap-to-dete and writtee in the ecisp and pointed manner so char-ecteristic of him. The booklet contains acceral useful appendices, and among them the correspondonce preceding the Durbar, the ennouncements medeat the Durbar, the Government of India Act, 1912, and the revised Regulations for the constitu-tion of Legislative Gouncils Those who have already on their shelves" The Government of India will find this publication both necessary and pseful.

Bohn's Popular Library Is net G. Bell & Sons. The first list of the new reissue is in Iteclf a testimony to the wide range covered by the famone Libraries, comprising as it does some of the finest exemples of our nwn classic literature-povels, belles letters, satire, philosophy-masterpicces of the literature of blatary and travel, and translations from the great classics of Greece, Rome, Cermany, France, and Spain-sorely a fine nuclene for a discrimicating reader's library, as low in price as it la excellent in form.

Messrs. Jack announce The New Encycloredie. The work will be entirely original theonghout, and owing to the way in which the metter is condensed and the illinstrations treated the 1,600 pages will contain se much information as is namelly got into aix large volumes. All the entries are thoroughly up to the latest date, and science le a strong feature of the work. Struck by the inconvenience to the reader of having a donan to twenty volumes to the consequent confusion and ieritation, the publishers have put the whole into one good-sleed volume. This was pursue wants told fall sleed Encyclopedia will be welcomed by many a worred readen. A large childo has been printed and the work will be issued at a popular price.

A work of great luterest to sportsmen is ennouna work or grean interest to sportsmen is smooth cod by Mears. Inthum. It is "The Book of the Ball" by Mr. A. E. Crawley, giving an account of what the ball -doce, and why, in connection with cricket, football, golf, beschall, teams, etc.

A collection of reflective and comforting verses by L. E Smith entitled "Odes and other Poems well shortly be published by Mosera Methuen.

Mesers John Long, Ltd., will shortly publish a volume in Verse entitled "Queen Einzbeth en Epic Dram." by the Rer. Vallam H. Witter, 24. a D. etc. Rector of St. Saviour, Glen Osmond, South A. St. South Australia. The work has already heed dramatised and ataged with encocas in Australia, where the enthorities have signified their appreciation of it.

....

[&]quot;Government of India "-Sir Courteney libert, x c s I., has issued a second emplementary chapter to his well-known volume, "Government of India," under the name of "The Coronation Duchay and itse Consequences" (Clarendon Press, Gxford, 2s. 6d. pet). The chapter contains a speciact account of . .

Mesara Kegsu Psul, Trench, Trübner end Co, Ltd., havo in preparation a new edition of 'Doda Annals of Rejustham' This famous Indias Classin has been long out of print, and it dedicated by permission to His Highness Maharajah Rana of Jalassar.

SCHOOL AND COLLEGE SPORTING NEWS

Annual Sports in Kumbakonam

The Inter-Collegata Athletto Sports for this year came off at the spaceous pleyground in the Government College premises bers and all the strong educational institution in the district gody compiled Mr J a late, Frincipal of the Collega was the Fresident to the Executive Committee while a good number of the Discottive Committee while a good number of the professors and the control of the Collega was the President of the Executive Committee while a good number of the Discottive Committee while a good that the professors and the control of the professors and the speciator The games over, Mr B Wood, J C N, our Collega and the collega and the speciator The games over, Mr B Wood, J C N, our Collega and the collega and the speciator of the private theoring. The Wasleyson Mission Collega and Manuargady and the Si Faters High School and Standard Mr Tates thanked Mr Tates thanked and the proof for previous theoring the wood set of the private Mr Tates thanked Mr Tates t

Ernakulam Inter School Sports

As the appended has will show, the Sports were as ever, for the D M S Trichor, wasted some of the trophete pertaneally, and the College boye were "not harmy any." The Rights Shield was won and will find a local habitation and an honoured ame in Trichor, but the Inflorpers Shield was to the College size. The Challer Day of the West to the College at the College and the College and

Mr. Davies sook the place of Mr. Barbor for the sternoon as Mr. Barbor was unwouldably absent In fell to him to thack II II the Rays for graciously present the fell to him to thack II the Rays for graciously present the fell of the state of the fell of the f

Mr Davey of Allephy took command of the army of judges and made progress rapid Mr. S K.

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Weil Coast Endmarker Tournament
Thus Tournament open to all the teams of the
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the Freet Coast, (South Coaster, Malbor, Coche,
Travanceria and Constance 1913. The astronomence on the 15th December 1913. The astronomence on the 15th December 1913. The astronomence of the 15th December 1913. The astronocustance free must be sent to E. N. Natsan, Serrement School of Commerce, Calcot, on or before the
15th November, 1913. The sunsing teams will be
presented with Silver. Medala awarded by the
Rouse Englisheder F. Sonswandern Chettier of
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West Coast Foot-Rall Tournament

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Mysore Interested Sports

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It was beliated that the Cottonian team had a really fair chance of heating St. Joseph's College in the Inter School Tonnament for the Cricket Trophy.

It was a particularly hot day as play opened on the Geotral College ground and the College went in to bat first. When their third wicket fell the prospects of the sida were not bright, for S

7 17

Simon and Rule succombed quite early and Eimon was fait to be a distinct loss. Maybury, however, stayed in from third wickst to walk ont with his worn in sighth man stayed with him ull Ferdinands found his wickst for a cobstantial 50. He was then grated by McCosh who began to his short quite bowling. The Golfgen by generally punished the bowling. The Golfgen and his short significant was the stayed of the stayed of the speedule stayed to the speedule speedule stayed to the speedule speedule stayed to the speedule stayed to the speedule stayed to the speedule stayed to the speedule speedule stayed to the speedule

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St. Joseph's College Sports

Printes and special properties of St. Joseph Conference on the College grounds in the College grounds in the College grounds in the presence of the day of the College grounds of the presence of the short of the College Squares and the belonders of the short in the College Squares and the belonders of the short in the College Squares and the College Squares and the College Squares of the

which were most loadly applauded during the afternoon were the figure-rouning, ring drill and the tag-of-war-and the prize-group, of course. The Ray, Fr. St. Germain is to be heartily complimented on a most encessful programme and upon its very enthansissto reception.

Inter-School Sports at Salem. The Salem Field Games Association at its meeting beld in August last under the presidency Mr J. T. Gillespie, LCS, resolved to ron the Annual Sports on the 26th and 27th ultime and on following days, the large compound of the London Mission High School presented scenes of the greatest enthusiasm. In response to invitations sent round by Mesers.
W H R Chatterton and Rac Sabib K.D. Subramania Iyer there was a distinguished gathering of ladies and gentlemen to witness the varione events. There were in all 47 items and the organisers very wisely ruled that there he four classes of competitors as fellows .- Class I open to all; Class II npen to all under 17 years; Class III children under 13 years; and Class IV years to lass 111 contacts more 18 years years and Class IV open to ell moder 10 years. No boy was parmitted to take more than two prices. In the unwrouldable sheemen of Mr. J. T. Oilenglie, 1.0.58, Mr. E. Pakubam Wilst, 1.0.8, bis successor did dayras host The invited gueste were treated to tan and high-preferablements, and the arrangements than and high-preferablements, and the arrangements. are sun inges refreshments, sun use deringements made on the two days reflected credit on Rao Sabb K. D. Sabrameoia lyer who was meinly responsible for the same. The leading citizens from the town and the mofinell made a ready response and present of the Commissional Commission ed the Committee with gold medals and silver cape. and the Committee's thanks are in a large measure due to the various donors for such encouragement and belp.

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The Educational Review

Principal E H Griffiths presided over this section and his address deserves to be read cure for this British Absorbation in the received in influencing

the shaping of educational Especially those that clamour for policy the introduction of compulsors Primars edu cation in India will do well to read Principal Griffiths report of his carefully made enquiries of the results of compulsory Primary educa tion in England for the past forty years He finds that a large majority of manual labourers are not rendered any more efficient in the discharge of their tasks by further instruction of an academic character (than the acquisition of the three R sl He points out that the assumption that all children are fitted to prof t by more than the rudiments of academic Education is the cause of much mischief

Democracy in its control of education counts noses rather than brains Among others Principal Griffiths gathered the views of teachers who also admit that Primary educa tion has been a failure though they attribute They plead in extenua it to other eauses tion that the large size of the classes is in itself a barrier to real efficiency, and that the teacher is so fettered by regulations so bothered by the fads of individual Inspectors Principal Griffiths then propounded his own method for the remedy of the defects of Primary education I consider that we are proceeding in the wrong order in that we give greater prominence to the acquisition of knowledge than to the development of char There is truth in Emerson's dictum that 'the best education is that which remains when everything learnt at school is forgotten We appear to think that the learning of the

three R. s is education. We must remember that in imparting these we are only supplying tle child with the means of education and that even when he has accounted them the mere addition of further knowledge is again not education. If we impart the desire for knowledge and train the necessary mental appetite the knowledge which will come by the bucketful in after life will be absorbed and utilized Recently in India we have had also much talk of placing moral educa tion in the forefront of school work but the means proposed for attaining this was rediculously inept Teach one more booka text book of morality It is a ridiculously childish belief that morality can be taught like the multiplication table Realmorafeduca. tion-at least that part of it that can be aimed at in schools as I rincipal Griffiths has pointed out is the introduction into all schools spirit of our much abused public schools. 10. a sense of responsibility -and as a necessary sequence a sense of discipline-a standard of truthfulness and consideration The War wickshire County Council has introduced the prefect system into its Flementary Schools with admirable results. Sir Robert Baden-Powell's Boy Scout movement is at the root of this reform that places the training in right conduct over and above the imparting of right knowledge. But so long as we attach greater importance to the results examination than to the judgment of the teacher our system stands self condemned for it places knowledge above character

Principal Griffiths then dealt with the important question of the Schools and the Universities of the greater educational institutions Evolutionary

progress is only possible where variety exists,

and variety is necessarily abhorrent to the official mind. Freedom from local authorities to adopt their own methods, to experiment -often to fail-is the system, if system it might be called, by which alone advance is possible. The curse of uniformity, perhaps the greatest curse of all, is a necessary consequence of over-centralized control." Further on he said, "the freedom of the Universities is one of the highest assets of this country, and it is to the advantage of the community as a whole that each University should be left unfettered to develop its energies, promote research, and advance learning in the manner best suited to its environment." How different it is in India. This "highest asset" of English University, freedom to devise courses of studies and follow them is denied to the Indian Universities. An Under-Secretary in the Government Secretariat can by a stroke of his divinely-inspired pen upset the resolutions of a body of educational experts who have given the best portion of their lives to educational work; for no resolution of the Senate is worth the paper on which it is written, unless the Government sanctions it. And what is worse, any Fellow, even one who has never been inside a college since he took his degree and who knows absolutely nothing about the educational activities of civilized world, has merely to start a fad ; and, even though but a handful of Fellows follow his lead, and the bulk of the Senate is against bim, he straightway tushes to Government. and invokes the strong arm of Government to brush aside the result of the accumulated experience of all the eminent educationists of the land. He has only to make sufficient noise and some eminent Government official begins telling people, " It would be politic to meet this agitator half way." Higher education should be saved from the blighting Influence of platform politics and the power the Government has over the University forcibly drives University affairs into the arms of the demaogue and the stump orator and the party politician.

After the presidential speech, numerous urgent educational ques-

other questions considered at the tions were debated on. We have barely space for more than enumerating them.

The educational value of museums was discussed in conjunction with the Anthropological Section. The next question was the function of the Modern University. A committee teport on the influence of school-books was next considered. This was followed by a paper by the ever-active Rev. J. Knowles In which he pointed that "in the various Indian scripts there are at least 20,000 symbols to represent 53 elenientary sounds" and this monstrosity is kept up by Indian sentiment, which very often is destructive of sound common sense. The address of Dr. Kimmins on "a plea for research in education" deplored the atter lack of professional knowledge among most teachers, such as is possessed by the lawyer or the doctor. The next paper was on the teaching of spelling with this we have no sympathy, for we hold that the absurd English spelling has best be given a decent burial as soon as possible; it is a wonder that England is the only European country that sticks to a ridiculous spelling The other papers dealt with the use of suggest tion in education, registration of schools and the value of handwork.

The independence of the University from

The State and ontside control, eventhough
the University the authority that attempts
to control it be the State that contributes to

the fends of the University was passionately pleaded for hy Principal Griffiths, and the recent debate and resolution anent thu same subject in the Madraa Senate at its last menting is eloquent testimony that out here in Madras, we want another Principal Griffiths to teach us our duty This is not a case of the right of the man who pays thu piper to order the tune, for the Government is as a Government emmently unfit to inter fero in any University matter, for the reason we have already put forward. The Secate is a body of men who have to concern them solves with soience, with learning, with this advancement of knowledge, but the prime function of Government is to helance the demands of various parties and to do what is expedient, what is politic. We do not want policy in the tomple of learning We do not want the University to be swayed by party considerations, by the clament cries of sections of people The Government cannot help being the target of passionets denuncie tion and equally passions to defence; its proper function is to work on the plann of emotion; but the University ought to be kept out of thusphere of passion and prejudice We, therefore, protest, quite as passionately as Principal Griffitha at the British Association against the State attempting to keep the University in leading atrings, simply because it contributes recurring or non recurring grante to University funds

Rumour has it that the number of Inspectors of Schools will be increased by the the There are some amateur critics of educational policy that oppose any increase in the number of in spectors. They say 'there are more. In spectors than schools. This we consider a

prejudiced criticism. In old times attempts were constantly made to improve teaching by changing the style of examination It was an article of belief with most educational reformers that a new style of examination will help to bring about a new style of teachme This hope has been discovered to be ill founded anew style of examination means a new style of cram and not an intelligent reform of methods of teaching The external examiner can never help to improve methods of teaching nor can the average teacher be expected to move in the matter for he is so ill paid and so much sat upon that he has neither money nor initiative. The only person that can reform methods of teaching in schools as the Inspector and this he can do only if he is informed and enthusiastle While we welcome therefore the increase in the number of Inspectors we hope that the right men will be chosen and the new Inspectors will prove a help and not a hindrance to the improvement of teaching methods. In the case of Indian Inspectors in most cases in the past either they have risen by stress of long service from the Sub Assistant In spector a grade when the grand of office work of manufacturing returns and reports has killed out what little soul they had or from tle professorial staff of colleges when years of lecturing on mathematics or metaphysics had snuffed out all remembrance of school life and school subjects A much better method of choice of Inspectors (and we hope half of the new Inspectors will be Indians) would be to select men who have taken a good degree appoint them probationary Inspectors send tlem to Europe to study methods of school education for a year or two and then make them pukka Inspectors As regards England appointed inspectors we do not know how the

Secretary of State selects them, but we know that some of them are very good and others not quite up to the mark. Some are fresh from the Colleges without any experience of Indian or other vchools. They should serve as probationary Inspectors at least for a year in India to enable them to learn the conditions of Indian schools and vernaculars. It will not be too much to institute an examination for them in the vernaculars as it is in the case of Civilians and others. It would be seen that here, too, there was great need for reform of the methods of recruitment.

To some people Sir Oliver Lodge's presidential address has proved disappointing They exefficial Associetion.

es a physicist, to hear him discourse on the recent discoveries in Physics which now a days chase each other so rapidly that even earnest students can scarcely keep pace with them, or from his dallying with psychical research, to hear blood-curdling tales of spooks from the land beyond the grave and what enlightening information he might have derived from such weird sources. He avoided both these and went, as it were, on a side-track. Pointing out that discontinuity is the mark of the things we have to deal with in Mathematics, Physics and Chemistry, he averred his faith in ultimate continuity. The problem of continuity necessarily involves the question of the properties of ether, the hypothetical malaprakriti of modern science and Sir Oliver Lodge gave a lucid exposition of the characteristics which we have to endow ether with, so that it may prove a useful concept in Physics. In this connection he attacked the principle of Relativity in the extreme form held by Prof.

Einstein. The principle of relativity says that "no effect of any order of magnitude can be observed without the relative motion of matter," in other words, that we can never ascertain motion with reference to ether. To oppose this view, Sir Oliver Lodge suggests that we can do so by comparing the speed with which we move through ether with the speed of light. Into the details of his suggestions we need not here enter. From a vigorous defence of the real, objective existence of ether, Sir Oliver Lodge passed on to a defence of vitalism. "The ether makes no appeal to sense, and therefore some are beginning to say that it does not exist. Mind is occasionally put into the same predicament. Life is not detected in the laboratory, save in its physical and chemical manifestations; but we may have to admit that it guides processes nevertheless." From vitalism, Sir Oliver Lodge slipped on to a defence of the immortelity of the soul and deprecated the pugnacity of mood which still clings to some scientific men with regard to theology, and wound up by drawing attention to the "Immanent grandeur," which we will be deaf and blind to, " unless we have insight enough to recognize in the woven fabric of existence, flowing steadily from the loom in an infinite progress towards perfection, the ever-growing garment of a transcendent god."

Far and away, the most important paper read at the British Associa-

The Radinactive read at the British Association, from the standpoint for the extension of scientific knowledge, "was" the "one

read by Mr. Prederick Soddy to Section D. The announced the great discovery of the year 1913, that of the general law governing the passage through the periodic table of the elements in process of radio active change " Is the result it is possible to write the three di integration series of uranium thorium and actinium across the periodic table so that each member falls into its proper place in the case of the twenty seven members th chemistry of which is known. The general law is that in an a ray change when a helium atom carrying two atomic charges of positive electricity is expelled the element changes its place in the periodic table in the direction of diminishing mass and diminishing group number by two places. In a 8 rts change when a single atomic charge of negative electricity is expelled from the atom as a & particle and also in the two changes for which the expulsion of rays has not yet been detected the element changes its position in the table in the opposite direction by one place We cannot go into further details nor reprint the table which illustrates the discovers for that will interest only the specialist But we quote the final paragraph of Mr Soddy s paper which indicates the The chemical general lines of the work analysis of matter is thus not an ultimate one It has appeared ultimate lutherto on account of the impossibility of distinguishing b tween elements which are chemically identical and non separable unless these are in the process of change the one into the other But in that part of the periodic table in which the evolu tion of the elements is still proceeding each place is seen to be occupied not by one ele ment but on the average for the places occupied at all by no less than four the atomic weights of which vary over as much as eight units lt is impossible to believe that the same may not be true for the rest of the table and that each known element may be a

group of non separable elements occupying the same place the atomic weight not being read constant but a mean value of much less fundamental interest than has been lutherto supposed. Although these advances down that matter is even more complex than 1 mical analysis alone has been able to rivid they indicate at the same time that the problem of atomic constitution may be more simple than has been supposed from the lack of simple numerical relations between the utomic weights.

This question is beginning to attract the attention of several edu cationists in England and America They are begin

ning to realize that there must be something rotten in an educational organization that per mits of but two periods of 45 minutes each in a week to be devoted to subjects like History Geography Algebra, &c The overcrowding of our curricula is due to the false theory that the object of school work is to pour as much knowledge of as many subjects as possible into the minds of pupils Says a writer in School Science and Mathematics in an article of Academic inefficiency - The curri cula of our schools from the Kinders arten to and encluding the University are crowded beyond all reason and all hope of producing the best results To be able parrot hke to recite rules aid formula is not education walking through a botanical garden does not make a botanist it is that which il e student masters that makes lim a student going through books does not educate one There is a great difference between one's going through a book and having the book going through him Too many studies in a given time cut off the time necessary for reflection

-a prime essential to thoroughness. Intensiveness is not the child of extensiveness One's scholarship is not measured so much by its breadth but by its depth The disciplinary and cultural value of a course does not depend so much upon the number and kind of subjects in the course as upon the way in which it is taught and studied." We wish the people who clamour so persistently for what they very inaccurately phrase as "the reintroduction of the vernaculars," will read and understand the sound educational doctrine contained in the above extractwhat the student cannot master is not north making him study. The history of the study of vernacular poetry-that is what "the reintroduction of the vernaculars" really means-for the past fifty years has proved to the bilt that not one in a hundred can master it, why, then, should the other ninety-nine go through the treadmill, be stuffed with pabulum which they get rid of at the earliest available opportunity? The slightest acquaintance with modern educational principles will enable these agitators to realize how frightfully outof-date they are in their demands, how they take much trouble to pull back the progress of real education in our midet I

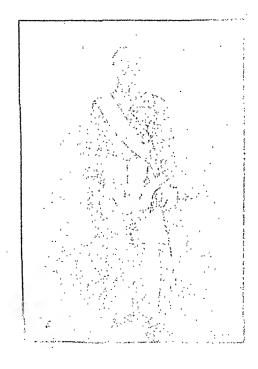
Most school boys know that the current of

The Gulf Stream
and the Bahara.

Gulf of Mexico under the
name of the Gulf Stream

affects the climate of the west coast of

Europe But other far-reaching consequences of the daily transportation of 40 millions of milliards of calories by the gulf stream have non been discovered. Water retains heat easily, so that when the waters of the Gulf Stream reach high latitudes, they preserve enough heat to raise the temperature of the air that rests on them higher than the surrounding temperature. Thus an ærial gulf stream superposed on the watery gulf stream is produced. This aerial current flows over Europe, precipitating as rain the enormous masses of water-vapour it carries; it is this plentiful rainfall that feeds the numerous lakes of Sweden, Finland and Northern Russia. But on account of the rotation of the earth, the zerial current turns to the east-Having dropped its heavy burden of aqueous vapour, it is now a current of dry cold air and as such it flows over the plains of Russia. The current then turns south and nearing the Equator, it is again warmed, but as it non flows not over the sea but over a land mass, it cannot gather any water vapour, and becomes a current of hot, dry air Its direction is now north-east and blows its devastating breath over Turkestan, Arabia, and Sahara, which are on its return route. "After having left the Continent, the zerial current, thanks to the trade-winds, links itself on again to its starting point, the Gulf Stream, thus looping its circuit after its having, like everything else, done much good and much exil."





Ђ Є Lord Hardinge.

The terming millions of the South we had.

Thes argust ford that bears on Indra's soil.

Britain's thrice sacred trust and sovern toil.

How noble striceman piloting her sail.

In storm and stress with wise and loving care.

Thou hast our deep felt hinmage true and free.

Though all this land of palm and sharne from soil.

To be set the grateful welcome rends the art.

Bengmane crowns the brow with glorous might With exen tempered power worshipped more And held in greater love than all the rorr Of bearliess sterniess. Wercy throned with Right Befrends tily labour for the highest weal Of India 8 sons to bring them ampler lift An I growth and soften all their longing strift.

To sweet content with Bounty's calming scal

Dowered with spirits unfaltering and braic. No distant villany could dim thy lose. For India is millions—it made thee you. The team with renewed strength and sive the logal children from the loathsome breath. Of lund superior. The wicked hand with sorow keeper than the pan of Deuth with sorow keeper than the pain of Deuth.

The hands have hely of to flash the sacred light Of knowledge through this spatious readim the walls Upreared in Learning's cause the stored hall. Whence Inda's myrand flowering youth will sight Truths gleaming tops shall blazon forth thy fame lo distant time and on the hallowed soil Of ancient Delhi will be shrined thy toil in spire and dome to speak thy mighty name

The roll of India's rulers holds thee dear The son that came to India. In closer love The India India India India India India India For India's happness and good shall cheer All future statesmen and thy memory Ol iruful's ondeasour and golden peace Shall ever may in Orient lands and sers With choes heard along eternity

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TO BE A CHEMIST.

CONSCIOUS as I am of my toability to suggest instructions in teach and study obtomatry, my interest in students would, I think, he a sufficient excuse if I attempt in do so. The science of clematry has, of recent years, taken an important place in the Secondary and Collegists course. Many teachers are in a puzzle to find and what their aim must he is importing instructions in the science and over if they are fold the true aim if teaching, they do not knuw how to fulfil it. With such teachers who are one capital to the teach imposed in them, it is but natural that students are onable to grasp the subject properly. With such students as our

future citizens, India must auffer a consider-

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able loss economically through neglect of

It must be admitted in all bands that it is a abore waste of time to teach abstract ideas anch as the kinetic hypothesis, atomic theory and ionic theory in the elementary course without familiarising the students with the common facts from which the generalisations have been developed. While teaching the lacts the teacher in the course of his leasons and experiments will try his best to insist on the students to pay more attention to accentific method than to facts. So much so, the students may afford to forgat the facts as they derive more lasting benefit from the general muchol.

The great importance to the students of himself performing experiments relating to the facts caused well be over rated. Very frequently, practical work is taught and practised musch a masner as to degrade it to the lovel of oproby necessaries of often unstelligable series of rule of thinm hyerations. Such a student who has not nobler aspirations and whn, therefore, does work in this fashion is core to meet with failure in the goal of life.

How then should a student work? What may he expect from a general laboratory course? First he develope a still in ubservation and general manipulation. The importance to the student of making careful notes of his work, while in progress, cannot be overestimated, as perhaps, more than anything else, this is calculated to develop in him those habits of sxact observation, salf reliance and resource which are essential qualities in a scientific man.

Secondly, be cultivates his imaginative faculty and creates in him a reflective to an of mind. It must be greated that facts alone will not make a scientific man. It is the sale duty of the teacher to indicate to the student the more relevant and significant facts to be committed to manney and used as material for the exercise of his intuitiest. Now it falls to the student to reflect logically and systematically on the observed data and draw legitimate inferences from expreriored orielence.

To course success as a choosis, it is absolutely necessary that the student shall contribute the student shall contribute the successive that the student shall contribute the imaginative faculty and develop a critical and impartial judgment. More than anything else, rigorous honesty in re-ording what is observed and absolute impartiality in intering from the available data are indiscensable factors of ancreas.

P. A. NASSTABA AITAR.

FORMATION OF CHARACTER.

1. The Operat of Engrance:—The wirest of consulted, at the present day, want more tangible books then reuning brooks, and more andible sermons than stoner can furnish. The civilized man differs from the arraye, from brute creatine, even in this—that he has capacities latent in him which, when properly developed, enable him not merely to exist symbox, but to live an intelligent, meril, and good him. The potentialities in him have to be drawn out, developed, and perfected to be drawn out, developed, and perfected.

with a view to qualify him to face the hattle of life manfully and hopefully, Physically, mentally and morally the child grows up, and has to be belped to grow. The object of education is to help this natural growth, to faculab facilities for the child's fell and barmunious development. Though in studying the child's complex nature, we may concentrate attention upon the physical or mental or moral aspect, yet we should never forgat that the child's growth is that of an organic though nomplex whole. No system of education can, therefore, he said to be complete which does not consciously and intelligently accelerate the cencentric growth of the child-which does not make cet uf him a strong, intelligent, apright and necfel young man. The system chiefining at present in this country, because it ettaches under importance to the training of the intellentand even of that only in certain directions, because it makes not anilicient provision for physical culture, and almost nene for developing the active virtnes of life, therefore is it faulty. The problem of daviding a fairly efficient and complete system-not to say perfect—is by no means easy; but cannot and should not on that scorn be resigned as bupeless.

2. The Score or our Enquist:—And in the first place we have clearly to define the scope of our attempt. It is not a philosophical inquiry in which we are at present regreged. We do not want to formelste the conditions under which absenter is formed. We are trying to colors a very difficult, but very practical, educational problem—to accertain what should and could be donn in schoolst and calleges to help the hoys to grow into vigorous manhood. And we deliberately comfine our attention to what should be decomined to the state of the

can "pick up" more easily at home! It cannot be done at schools, this "training of the emotions," is the learned explenation. and must be left into the hends of the percuts! A mother can elmost instinctively draw forth the child's love, and she ought to direct his emotional impulses into healthy channels in the cerly years of her buy. What precious psychology all this is I as if indeed there are such distinct periods of life, and separate agencies of education-for inculcating " the feelinge," for training " the intelligence" and for strengthening "the will"! It is time that teachers at any rate give up ench false notions. I do not deprecate the value of a good bome, the henign power for good that a cepable mother can exert all through life, or the strength of the fairy ideals that she hailds up for the boy in his earliest years. But I emphatically maintein that it is in his school that a boy's personality is developed; it is developed in the course of the corporate life he leads along with others, . in his desire to love and be loved by his peers. lu bis desira to maintain his celf-respect before them, in his curiosity to know what others know, in his desire for fair play and justice. And who hat the teecher can shape this corporate life of the boys? Very real and very responsible is bis work. He has to devise intelligent methods for the bays to graw together, and develop their hest traits. He has to study the idinsyncracies of his pupils, note their good and had traits, rouse their higher and nobler feelings, and so curb their lawer and baser impulses. He has to study the special aptitudes of his boye, to study their physical capacities, to correlate manual work with intellectual and moral instruction; he has to take an interest in drill and gymusatics, in games and sports-in averything that affects

the well-being of the heys. By precept end by example he has to present to them in the most tife-like colours tigh ideals which they would far ever cherish end aspire to. Such a teacher lores heat and longest in the pupil's wind.

5. PRESENT CONDITIONS :- But, is not all this being done at present? Some people answer in the offirmative, but with a qualification-"as far as possible;" that is with e qualification which but paints the glow of youth on faded cheeks, But why should not all this he done at present? In answer to this question I shall very briefly enumerate the unfavourable conditions under which we now have to work :- (i) Inadequate perception of the ideal to be nimed at: Education at present is what it was certainly twenty years age, and probably forty or even sixty years ago when the Universities were first founded. It is primarily a means for accuring appointments by passing examinations in various subjects. The ideal of a complete education, of the endeavour to give as much prominence to physical and moral as to intellectual training ia discreetly reserved for departmental reports and anniversary speeches ! (ii) The Domination of Examinations :- Public exeminations and college regulations still govern the reanite of work simed at in High Schools. The S. S. L. C. scheme has made only a slight move towarde n goal which as yet is hardly within eight. The new S. S. L. C. Public Examination has taken the place of the uld Matriculation; by the number of boys securing aufficient percentage of marks therein, by the number of those whn secure admission into calleges, is the wark of the school still ganged; the 180 working days we try to make up in a year, and the 5 working hours we have each day, are berdly enough to drill the hoys up in the A and C groups of the S. S. L C. syllabus Many a Headmaster has pathetically exclaimed to me "Where is the time, Sir, for moral instruction? From what subject on the time table can we possibly cut off even a period or two a week? As fur games and sports you see our accommodation is limited , we certainly do the hest we can! Indeed the univ matter in which one achool tries to compate, or is compared, with another is in that of examination results (iii) In sufficiency of arcommodation, funds etc How many institutions in the Presidency have sufficient play grounds for even 10 per cont of their pupils ? (iv) Luck of public spirit and institutive . (v) Inadequate appreciation of the teacher's work - (I deal with this point at length further on). (vi) Inadequate know ledge on the part of teachers themselves as to methods of moral education -Thus one very old teacher at a receot conference asked me "What is it, Sir, you want me to do which I am not doing now? I do my duty as conscientionaly as possible, and ask my hove to do their duty as well as they can I tell them whonever necessary what is right and what is wrong What more need he done?' Aye-what more need he done? Ho is hy no means the only one whose conception of moral education is limited, who has no idea of what is meant by crenting an atmosphere of active love in which the hove will ambibe name and lofty ideals of conduct and pharacter and atrive to emulate one another by kean yet healthy oudeavour Indeed, exceptions apart, the majority of Indian teachers fall into one or other of three classes -(a) a few who rely too far upon direct moral and rela gious tostruction, (b) a good many who depre cate unduly the value of such instruction, niter the sapient warning that example is

hetter than precept, and synically smile apput all enthnessts and (c) those, by far the largest number, who do not consider it discreet to express any opinion definitely, apply the warld all solution of the root to all delinquencies and would, when pressed, ask us to wast and see what the Government is going to resolve and recommend upon the matter!

6 THE POLICY OF THE GOVERNMENT -We cannot therefore he too thankful for the emphasis declaration that "in the forsfront of their educational policy the Government of India desire to place the Formation of Character of the scholars and under graduates under tustion" In Bombay, we are told that the question of moral and religious instruction ie being tackled practically, and that in other provinces committees were appointed almost two years ago to report on the question We are assured that though " for the present the Government of India must be content to watch the experiment" vet they "kesp the matter prominently in yiew" Naturally the machinery of Government moves very slow yet, by this time surely. the various Provincial Committees must have anhmitted their reports. But whatever the anshot of their recommendations is going to he, whatever special methods will be devised in future for the formation of character, vat. even as the matter now stands, consistent with the declaration already made by Government, two general measures the Government will aurely have to adopt (i) In the first place, ateps will have to be taken for ampressing upon all the teachers of the land the ideal set up by Government, and the practical hearings of that ideal upon methods and urganisation of school work. For it is the tenchers that have to be taught in the first

instance. It is not enough for the Government of India to notify the ideal; it is not enough to point out that "in the formation of character the influence of home and the personality of the tencher play the larger part." The "home" is naturally a factor which must be left to improve itself; but it certainly behaves Government to do all it can to improve "the personality of the teacher." It is curious to read that " the Bombay Government are engaged upon the preparation of a book containing moral instructions" for the benefit of teachers. For text-books by themselves can never solve the problem ; and I emphatically declare this, although I am myself the author of A Handhook of Morals,' We want preeminently not codes of instructions, not moral charts, but living teachers possessing enthusissm, knowledge, hopefulness and strength. who will be most inspiring books in themselves. The knowledge that most teachers want more than they possess at present is not, solely or even mainly, of duties and virtues, of moral anecdotes and religious biographybut of practical psychology, of the laws of mental action and reaction, of moral organization, of methods of persuasion, of the manner in which to present ideals and make them live in the hearts of pupils. Even if wn bave only a teacher or two in each school possessing such knowledge, the problem will be satisfactorsly solved. Therefore the first step that Government should take is (a) to provide for such instruction in training schools and collegen as will qualify the future generation of teachers to be morat educators as well; and (b) to institute courses of lectures to be delivered upon "methods of moral education" by competent persons to existing teachers. (ii) A accord prectical step that, to give effect to their

declared policy, the Government chould take, will obviously he to direct inspecting officers of the Department to review to fir greater detail than they at present are called upon to do, the facilities (and they are not at all confined to imparting direct moral and religious instruction) alforded in each school for the formation of character, and to give constructive criticism and advice regarding this rery important hreach of education. This of course means that the inspecting officers aboud themselves possess the requisits knowledge to give such advice.

7. PAY AND PROSPECTS OF TRACETERS :- But even "training" and advice can have value only where the teachers are placed above ordinary wante. This is a matter, however, on which I need not expetiate. It is snough to note its bearing apon the subject on hand, to point out how preposterous it is to expect that a race of ill-paid-and in many cases half-starved -workmen, struggling hard to keep themselves and their families above the wants of civilized social life, would give that whole-timed and that whole-hearted attention to their work which in the interests of true education they ought to give. The wonder is that they should do their work even as well as at present they do.

8. ORCATION:—Thus we see that our schools and colleges, though they have don, and are doing, very good work, are yet deficion it many respects and in none es greatly as in affording ample facilities for the building of strong, vigorous, and well-halanced 1ypes of character. But character, as an edectional problem, has some up for discussion only in recent years, and has not, in this land at least, you received that attention that it as pre-teninously deserves. It is not a problem that can be left entirely to home influences.

The teacher has the largest share in educating the character of the rusing generation task is very ardnous and requires a thorough knowledge of the development of the pupil's mind as a licing and growing organism. It requires tact and enthusiasm, patience and aympathy-in other words great " personality," - Text-books, syllabuses, and departmental instructions-excellent as these may be-are destined to prove futils unless the character is improved of the agency employed. Upon such character primarily depends thu auccess of every branch of education doubt necessary to increase school accommodation where it is found wanting jut as very necessary to have sufficient formitore and applances, necessary to have larger and better play-grounds, to base many, many more hostels than we now have But the must pecessary factor of all is the teacher's personality. His claims for better treatment arm receiving same hitle attention; and eldely sile with improving his status, it behoves Government to take immediate steps to improve his "personality," to give him better training, to place before blur higher ideals and help him to organise better methods of work And the Government can do and reed do nothing more, at least directly, perther does the education of the country need anything more so urgently.

M Karenyawachasta

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TRAINING OF TEACHERS

NOW that education is making marked progress to every civilized country, and that thoughtful people have begon to realise that education should be controlled by the State. because the proper development of young brains is an sudispensable factor in the growth of a nation, the 'equipment of teachers' should necessarily form an important topic for consideration, and should now engage more perious attention than in the past To smpart sound soutrnetion in all branches of knowledge which would help the range concration to be useful citizens of the land, and to build their character without which the society would lose its charming influence are functions, the difficult nature of which the man in the street may not quite grasn The responsibilities of a leacher are far more difficult and ardunes then generally imagined to be, and it should be realised that the difficult nature and the sacredness of his work make his profession really canobling. That he requires as much training and jestenetion so the art as the members of the other professions should have, is seldom understood t and people argue that the teaching profession does not offer soff tent worldly reward to justify any considerable saternies either of time or of expense on the part of those who are to prepare themselves for it. This is sure'y a silly orgument, but those interested in education about aim at improving the prospects and ampliaments of the profession threattractice republic and Intelligent men to us feld

Decamenes are going on in public platforms and in press of linguist, whether after all training of feachers in ind species to and whether a bracker can ducharpe has differentiate, after a course of training. A corsory glance of the proceedings of the conferences of beadmasters and headmistresses of Eogland, held occasionally, would explain the contrary opinions held. There are those who deeply consider that training is somewhat questionable parergon and that the teacher can pick up his work hy his nwn experience without any training whatever. They further hold that no one type or method of training is suitable for all teachers alike, and that instead of giving out psychological theory that faculties are inter-related, we must discover by personal investigation what kinds of chility are inter-related. According to them experience is the best teacher and training is a mere waste of time. Those who hold the other opinion think that there should be thought behind practice, and that after observing expert teachers handling classes and learning from them their own experiences and methods of teaching one is expected in teach hetter. America and Germany, the pioneers of ednestion in the civilized world, have by result of experiment once for all decided that formal training is quite necessary. Germany has exteoded the period of training to five years, and it is producing excellent teachers overy year who are discovering new theories in Paychology. We can safely rely on their experience and cen come to the conclusion that training is imperative for teachers.

This leads us to the question whether the training should be theoretical, practical or both. Professor Adoms, one of the greatest educational authorities of the modern times, observes is one of his presidential addresses. "Educational theory is so far cossolidated that the whole time of Training College attaches might be profitably occupied on non-controversial matters." I should consider that theory of education is es important as

practice of education for both are interdependent. Teschers generally do not attach much importance to theory and as a metter offact thuy forget all about it after the training course is over. During their actual experience thay do not ours to convert theory into practies. Further, teachers of secondary schools who learn much of Psychology during their training course are not given upportunities to teach the lower classes, and the mental state and the development of the breine of the pupils coming from the lower forms are not generally understood by thu secondary school teacher. Bot if, as Is done in some of the schools of Germany and America, the same teacher is asked to teach one and the same hatch of sindents throughout their course he would then realise the importance of theory and would, in course of time, prove a successful teacher.

Would theory alone do without practice? One of the experte recently held the perform ance of masters as teachers is in inverse ratio to their proficiency in training. That is because the practical side of training is often neglected. The student in training must be in tooch with the University training on the subject. He should observe the teaching of experts in various aphiects and note down the important points in their lessons. Discipline for example, is an essential thing for a teacher and it should be learnt practically. Further the eindent under training should be asked to handle classes occasionally nuder the supervision of model teachers; and his lessone should be thoroughly discussed and criticised. Training should mean something more than probation. Practical training should take place in specially selected schools and he conducted by the hest experts. I would anggest that the teacher in training

abould be required to write a thesis on a subject approved of by the Uoiversity I it must given proof of personal observation of the candidate's papils, which slone would strongth so his knowledge of the theory

Various schemes have been put forward for the improvement of the training colleges. In England a student is allowed to undergo both the training course and the University course simplianeously That would mean that the nducational authorities in England consider that oven the nodor graduates are competent to teach the secondary cohool classes stroogly think, from my own experimee, that noices onn has undurgooe the University course he canoot do full justice to his work in the secondary school While in India even gradostes sometimes fail as teachers, I wonder how one who has no University training can infuse into the minds of his pupils the reel apiritoflearning, and it shoold be remembered that learning by rote some extracts from text books in not the he-all and end all of education The building of character of pupils is perhaps more important than importing any knowledge, and it can he done anccessfully only by mature minds The personality and the moral influence of the teacher conot much to strengthening the pupils' morality and character The German Lineversities have realised to the atmost the tenth of this, and in the syllahus of work in the training colleges the Board of Education bayo focladed anhierts of general nature the general test is made preliminary to the training course. In our own Universities at is gratifying to note that only persons of general qualifications are allowed to enter training schools and colleges. But then one suggestion, I wish to make, that is, courses of general education and training should both be XIX

done by the training colleges, as done by the German Universities It is the training colleges alone that should decide who are competent to take to teaching profession Passing some preliminary geogral test should be the qualification for admission into the training school or college In the University of Manchester, 150 harsaries of free tuition and echolarship are awarded to the populs of the eccondary schools who intend to become teachers. These student-teachura attend for three days a week in public elementary echools, and two days a week at the secondary schools, and after their school course is over, they enter training colleges. Here in Indie, people take to teaching es a atepping-stone to other professions, and the stability of the profeamon soffers Therefore it is imperative that strangeot regolations should be introduced to obviate this evil Competent persons whn can enter the teaching profession should be decided beforehand, and mediocre men should be thoroughly expelled from our schools and colleges

As a said before, the training colleges should be maneed by exports whose chief qualification should be that they should visitall the import antichools and colleges of the civilized world. The colleges should he made as up to-date as possible, and all the precital reforms should be introduced. Even the students under training should be taken, at least once during their training course, to come of the model schools and they should be required to take down notes and suggest improvements in the mothods they had learn?

Again, the libraries and laboratories of the training colleges abould hi made as rich as possible, where the devoted student should have ample opportunities to improve have general knowledge and colture. All the edu-

cational reviews should be subscribed for, and students under training should be expected to study them and take down notes. The experts should supervise their work occasionally and criticions it. This referm should be immediately introduced in the training colleges of India, for I know, many of the teachers coming from the training schools and colleges here their minds black, and are ignorant of the state of education in other countries.

In corolosion, if the youth of the land is to be properly educated remombering that the child of to-day is the citizen of tenerrow, we want first-rate teachers, and for fist-rate teachers we want first-rate triging schools and colleges. Therefore it is these training institutions that shoold garge the immediate attention at the shoold garge the immediate attention at the authorities and they should be undowed as largely as possible. The Madras Government, if course, have done much to impreve the training schools of this Persideacy, but attill much more is to be done. Thus alone will care the existing ovils and we shall wait.

M. VAIDTANATHAN.

THE PRESENT S. S. L. C. MARKING SYSTEM.

I'will be well to trace the present marking system from the state of the Secondary Education before the edvent of the School Final Examination.

It was during the Viceroyalty of Lord Ripon in 1882, the Education Commission sat under its formidable President, Sir Wilham Hunter; as a result, so far as Secondary education was concerned, the High Schools were handed uver to Local bodies for management, they are to supply the sureward war, the examinations were conducted by the University, the Government control heing confined to the occasional visits of the Inspectorate. Thus the Matriculation Examination continued to hold its head from its inception till a few years acc.

There have been terrible complaints both from the press and the parcets shout the "slanghter of the innocents" as they called it; there was morest in the land cased, as they said, by the result of the Japanese was, by the dologs—rather the overdoings of Lord Carzon.

The Government mind was much agitated. They naw or believed, they saw how the Secondary education was gradully drifting beyond its mooring, saw how far they have become responsible for young India getting beyond State-control.

With a view to remedy these defects, the Government indirectly did away with the Matriculation Examination, virtually took it off the hands of the University, appointed S.S. L. C. Board: They shaped the Corricula of Studies and brought with them this incubes of the Marking system.

Let us examine how for the Government aucceeded in their attempt—though three years in loo short a period to give it a fair trial.

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During the days of the Matriculation Eramination, the News-do-wells, were forcibly withhold from the portals of the University till they got the required minims of marks for success. What do we find now? As there is neither pass nor failure in the School Final Examination, these flocked to colleges end are there detained by the siere of the Intermediate Exemination of the University, thus the street of the Intermediate Exemination of the University, thus the street of the Intermediate Exemination of the University of the Exemination of the Intermediate Exemination of the I

So the New Scheme, which was beiled as the panecee of all educational ills remens inoperative as cure. There were plucked Matriculates then. (Mr Editor, ellow us the use of the expression though a contradiction in terms, it is no very significant), there are placked latermediate men oow.

The other feature is the present marking aystem, how did it originate? What is it intended to serve, how does the system work at present? What are the points good and had in it?

Bear with us a while, till we pass underreview the different atages through which st should have been distilled out to us in its present abape

There was till lately a mans for Public I raminations for the selection of suitable candidates for State-service. In some quarters, where people worship the Fatish of Prestige and Edicency, as interested cry was rused that the Brahmu mendicants—tha acknowledged intellectual Aristocracy of the land—carted-away the planm and overything before them by passing the examinations, that they successfully aplit the tenth part of a hair with surparsing dexterity, that these examinations startleed their intellectual first tert moral worth and needs of the call forth their moral worth and

touched not even the fringe of what they call character and oil things thet come ouder that denomination—thet the beckward classes and the minority were left unrepresented, the landed and the moneyed Aristocrecy were weefully in the lurch—therefore down with the paper examination!

Then s new principle wes set up, called Selection and Nomination principle. The candidates were chosen by the presiding deity of each department, such as bere been goldspoon fed, born of joins enthroused.

Nature is ever importial—where she gives the length of the purse, to such, she refuses the wealth of brain. The result was all the satellites of the god of wealth were cheed out, forcibly brought together end pressed not service, but unfortenately they clogged the wheels of the machinery of the Government.

The change from examination to solection and nomination improved not the situation as whit Now ao awkward combination of the two incompatible elements—examination and selection—is oow in its trial and experimental stage.

In this imperfect world, no man-made aystem can be perfect. Man strares after an ideal, can press closer and closer to it, but the ideal cannot be realised and must for ever continue to be unreal zable

Come we now from the larger world to the anall world of the school; the authorities have decided that the yearly paper test, by the entering were aseless, that that test ignored the personality of the teacher who is where he is, not for the purpose of training the young rea in intellectual gymnestres, but for haiding them op into perfect organisms phyacilly, intellectually and above all merelly; cational reviews should be subsorihed for, and students under training chould be expected to entiry them and take down notes. The experts should coperate their work occasionally and criticise it. This reform abould be immediately introduced in the training colleges of India, for I know, many of the teachers noming from tha training schools and colleges have their miods blank, and are ignorant of the state of education in other countries.

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So the New Scheme, which was hailed as the panacea of all educational lile remains imperative as a cure. There were plucked Matriculates then. (Mr. Editor, allow no the one of the expression though a contradiction in term., it is over gignificant), there are plucked Intermediate men now.

The other feature is the present marking system, him diditionignate? What is it intend ed to serve, him does the system work at present? What are the points good and had in it?

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In this imperfect world, no man made aystem can be perfect. Man strives after an ideal, can press closer and closer to it, but the ideal cannot be realised and most for ever continue to be unreal zable

Come we now from the larger world to the small world of the school; the subtortites have decided that the yearly paper tests by themselves were useless, that that test ignored the personality of the teacher who is where he is, not for the purpose of training the young men as intellectual gymnestics, but for building them up into perfect urgainess physically, intellectually and above all morally;

therefore make the teachers loom large in the oyes of the popils, give them of freer hand in controlling their destioy and charping their character, let the hoy population be brought more oystematically under the teachers' control end ducipline.

Hence this new scheme of the marking system was nehered in to the atter dismay of the teachers and the taught. This, as we understand, is the cticlogy of the marking system.

The old cry was that there were too many ozaminations, yearly, half-yearly, &c, the strain of which broke down young India. What down find now! The disease has appeared in a more timbent form. There exo now hourly examinations by individual teachers all the year round.

We all well knew that in the High School classes, there is, not as of old, as single teacher for all subjects, but a specialist for each subject; and if there he 6 or 7 periods in a sebool day, the hoys must pase under tha view and serntiny of each of the specialistsand these ever demand their pound of fleshnothing less will satisfy them ; the pupils thus have e number of these gods to propiciate their energy and labour is stretched to the breaking point. These teachers are frail human beings and se such have their likes end dislikes; the boys irrespective of their individual merit and mettle must bend their knees to their idiosyncrasy—lest their marka are gone. Mr. Editor, I ask you in all aeriousness, whether such a kind of doubte life in our atudents would not dwarf their moral growth, would not give them a schooling in hypocrisy. To think of the impartiality and the justice-loving nature of these people who are passing rich with 40 to 100 Rs. a munth is wake haman nature immaculate.

Thus the one end fecture noticeable now in our boys in their niter loss of self-assertion and boyish pranks. We find that, instead of aprightly beaming faces, a pack of boys with alavieb looks, whosever the teachers floorish their formidable weepon, the lark Rejetter, they carry in their semi-spit as the boton and symbol of their office in their bourly march from one class to suother.

Now come to the teachers; they are an honest, hard-working people; their teaching work in all conscience is enough to break their back; add to this, their submission by the end of every month to the Headmaster the percentage average marks of the boys in each subject they teach ; on an average allow handred boys to each teacher; can haman flesh stand the strain of the weighing of the pupils' merit by comples and drama? No, the result, at best, must be haphazard guess. Grant that the mark system is more or less perfect in its operation in compelling obedience to the constituted authority, and that thousand good results follow. Have we as yet seen one S. S. Is. certificate where a real black sheep is propped forth in all earnests Under the head of " general character" you find all grades of " poor, tolerable" to "good and excellent." No hody dare put down indoweright honest English "Here is an veritable devil hang him." If you find one, we will make hold to call the Headmester who issued the certificate as e remarkably stupid gentleman. The certificates do not reveal the real situation; for which human flesh can stand the moaning of the branded mes and the woo begone faces of their parents.

In fine, our fear rather hope is that the old urder, though changed for the pressot, must reappear in its periodicity sconer or later, the old Matriculation, with modification noder a new denomination would raise up its head thus illustrating the off-forgotten truth that we are not a whit better than those who have gone hefore as.

A TRACERR

ENGLISH SPELLING

AN APPRIL TO BACON, SHAKESTEARS, AND

H G Wells
(By a Special Correspondent)

TALE opelling reform movement derives its main apport from emicent philological scholars, more particularly from those who have given opecial attention to the Teutonio elements in the Eoglish language, and from the ranks of the teachers in our elementary schools, who know from psinful experience how much of their time and energy is wasted in hopeless attempts to teach their pupils the wonderful vegeries of our conventional spelling for which it is impossible to give rhyme or reason. The main opposition to spelling reform comes from those who are conventionally called the educated classes They have been taught on the old lines at our Poblic Schools and Universities, but they have not specialised in philology, and they are old fashioned enough to believe that the views expressed by Archbishop Treach represent the highest level of modern scholar ship in this particular department of them are men and women, whose opinion deservedly carries great weight on purely literary matters, and their statements that the real of the apelling reformers is measong the vigour and purity of the English language are naturally accepted at their face value by those who are already under the away of the wide-accepted soperatition that

these who spell in the conventionel manner are "literate" and these who spell as they please, as is recommended by Principal Sir James Doneldsoo of St. Andrew's University, are "literate"

One emment opposent of spelling reform recently declared that the epelling that was good enough for Shakespears and Becon wes good enough for him No one can reseon. ably dony that the epelling that was good enough for Shakespeare and Bacon proved steelf an adequate vehicle for a great htereture How Shakespeare himself spelt we have little mesos of knowing, the specimens of his coligraphy extact leave os in doubt se to the correct spelling of his name. hot the spelling of his printers diverges elmost as much as the "Nyn Speling" of the Simplified Spelling Society from the conventional orthography of to day In illostration of this permit me to quote the opening speech of Orlando in "As lon Like It," as printed in the First Folio Edition of Shakespeare's works published to 1623

As I remember Adam, it was voon this fashion bequeethed me by Will, hot poore a thousand Orowoes, and as thoo saist charged my brother on his blessing to breed mee well and there begins my sadoesso. My brother laques he keepen at schoole, and report apeakre goldenly of his profit for my part, he keepes me rustically at home, or (to apeak more properly) states me heere at home vokept for call you that keeping for a gentleman of my hirth, that differs not from the stabling of an Oze? His horses are bred bester, for besides that they are faire with their freding, they are taught their mannage, and to that end Riders deerely hir'd but I (his brother) gaino nothing nader him

bat growth, for the which his Animals or his daughlis ere as much bound to him as I: hesides this nothing that he so plentifally gives me, the comething that nature gave mee; his contentance seemes to take from me: hes lets mee feeds with his Hindes, barres me the place of a hrother, and as much as in him lies, mines my gentility with my education. This it is Adam that grieves me, and the spirit of my Fatter, which I thinke is within mee, begins to mutinies gainsat this servindo. I will no longer endore it, though yet I know no wise remedy how to saided it.

The spalling would look even more quaint to the modern eye, if the old-fashioned long a closely resembling an f were used as it is in the First Folio. This howaver is a question of typography not one of epalling.

Shakespeare knew little Latin and Iesa Greek, and, in the technical medieval sense. he might be described as "illiterate," but Lord Bacon was the most erndite man of his age, and it is surely not noressonable to ansume that he would pay some attention to the literary form of the first and other aditions of his "Essaya" that were published in his life time. As a specimen of the spelling of his prioters the following quotation from his essay on "Studies" may be given :-Studies serne for pastimes, for ornamente and for abilities. Their chief was for pastime is in privatenes and retiring, for ornameste is in discourse, and for abilitie is in indgement. For expert men can execute, but learned men are fallest to indge a censure,

To spend to much time in them is shuth, to vee them too much for ornament is affectation; to make judgement wholly by their roles is the humour of a Scholler.....

Some bookes are to bee tasted, others to

bee swallowed, and some few to bee chawed end digested. That is some hockes are to be read only in partes; other to be read, but cursorily, and some faw to be read wholly and with diligence and attention.

In contrast to the quotations from Shakeapears and Bacon take the following passages in the "Nyn Speling" of the Simplifield Spelling Society from "The Star" by H. G. Wells:—

Brieter it wor than eni star in our scier; brieter than the sevening star at its brieter. It stil glood out which and larl, no men wincings spot ov liet, but a smanl, round cleer, ahisning disc, an our anter the dei had com. And whair siens has not reech; men staird and feord, cling won aunther or the wors and pastilener; that a forebaded bit there fieri siens in the beyone, Sturdi Boert, dunci Hottentoia, Gold Coast negrots, Franchmon, Spaniards, Fortgages, stood in the wormath or the sunriez woching the seiting or this strain jura aia.

I aubmit that the old spelling of Shakespears and Bacou is neerly as much removed from the modorn conventional spelling as be "Nya Speling." If the last mentioned is ugly so are the other two. If the doition of Hr, Wells affers from the "Nya Spelling." Shakespears and Bacou in the manner saffer of from the manner in which their thought was manufed by their priotest.

There are abblars who prefer to read Shakespear's playa in the First Folio, and it might plausibly be negad that the works of Mr. Wells, a may of the now age, are most apportraitely set forth in the "Nys Speling." Be this as it may, it is generally recognized that Mr. Wells has a communities some for style. He would therefore, be, the

last wan to allow his works to be printed in the "Nys Spelog" if he thought it is wedned dismost in the slightest degree the delicacy and piquancy of his thought. In language and also in literetura it is the spoken sound that really matters, as the late Professor Skest coostantly meintened, and to this our present abourd method of spelling English gives no close.

The man impression that I have sought to convey is that we can have great English literators in diverse forms of spelling. When this view, which is the only possible one, when the facts are fairly considered, permetes the educated cleases in England, the 'Nyu Speling' will have a fair chance of being considered on its merits, and these all that its advocates ask you

Mr Sydney Walton, MA, BLitt, Secretary, Simplified Spaling Soneti, writes to

44 Great Russell Street
London W C.
Cet 29 A 1913

THE EDITOR,
"EDDCATIONAL REVIEW,"

DEAR SIE,

I was very much toterested in reading in your pages for September, the excellent paper read by Vice-Principal Ross before the South Indian Branch of the English Association in Medrae

I should like to add to the list of books be gives, the neme of the "Pioneer," a monthly porcal which is published by this Society lits pages are of absorbing interest to ell students and teachers of phonetics. The apelling in which it is printed faithfully represents the best conthern English speech and tha reading of it is therefore of very great volue to lovera of English hayond the borders of this country 1 shall be happy indeed to have the privilege of seeding a free copy to any of your readers who will apply to me.

A DOUBT.

"All that is fair must fade.
The fairest at II the somest

Why is it ever born—
The little child
That comes but to ha gone
Our 'decreat' sivled?

Why does it cross our way—
A passing atar
Now here, now for away,
And next nowhere?

In soatching it away
Thus suddenly,
What revelation may
He cause to be?

The infant knew not anght
Of any an —
For what could it have wronght
Baro anothers seven?

Ah i Nut for us are they Whom we mey love, But soon one borne away To apheres above

They loved each other well
And love has knit
Them First his grand fell
Now he would flit

'Dear girl,' her father says
'A precions gift
Is your boy; watch hie ways
That he doesn't drift.'

One after one they drop
Before my oyes
First fells the family prop

First fells the family prop
The best of ties.

The latest is this child Our darling dear That dies a death so wild But bare seven years!

Why is it over born
The little child
That comes but to be gone

Our 'descreet' styled?

S. SHIRIVABAN.

Regulation No V of 1918.

THE ELEMENTARY EDUCATION REGULATION, MYSORE.

(Received the assent of His Highness the Maharaja on the 11th day of October 1913.)

Whereas it is expedient to make better provision for the extension of elementary education; His Highness the Mahsraja is pleased to enact as follows:—

- 1. (1) This Regulation may be called the
 Short utils, commeascement and extent,

 gulation, 1913; and abait

 come into operation is noth

 areas and from such dates as may be notified by

 Government.
 - (2) It extends to the whole of Myeore.
 - 2. In this Regulation, nuless there is anything

 Polantition. repugaant in the subject or

 context.—

"Parent" includes the guardian and overy person who is liable to maintain any child.

"Education Department" means the Gorernment of Mysors in this Education Department or the Isapector-Quency of Education in Mysors setting under the Government of Mysors in matters connected with public instruction in Mysore,

"Recognised School" means a school recognised by the Education Department for the purposes of this Recolation.

"Elementary Education" means the courses in reading, writing and arithmetic and other subjects, if any, prescribed from time to time by the Education Department for elementary schools for the purposes of this Regulation.

3. In every area to which this Regulation

Doty of parent to school, and boy to school, of the parent of every boy.

years of age, residing within mob area, to come such boy to stitend a recognized school for the mentary education for so many days in the year and for such time on such day of streadence as may be prescribed by the Education Department, onlies there is a reasonable occase for the nonstreadness of the boy.

- 4. (1) Any of the following circumstances

 Non-stendance
 when excusable.

 ppg-attendance
 ppg-attendance
 ppg-attendance
 ppg-attendance
 ppg-attendance
 ppg-attendance
- (a) that there is no recognised school within a distance of one mile measured along the nearest road from the residence of the hoy which the bey can attend;

(b) that the boy is prevented from attending school by reason of sixtness, infirmity, domestic mecessity, the seasonal needs of agriculture, or other sufficient cause;

(c) that the hoy is receiving instruction in same other satisfactory manner; and

anms other satisfactory manner; and

(d) that the hoy has been exempted from such
strendance by proper authority.

- (2) Where there is a redsonable excuse for non attendance, a certificate of exemption may be granted by such authority and in such manner as may be prescribed by Government.
- 5. If in a recognised school in any area in
 No compulsion ragarding attendance and of cligitous classes are held, no
 boy shall be compelled to
 attend such classes against the wishes of his parent
- 6 In any place to which a notification under Section 1 applies, no person
- employment, shall employ any boy between the ages of 7 and 11 who a not receiving elementry education in a recognised school or has not obtained a certificate of axeme-
- tion noder Section 4
 7 For the purpose of enforcing the provisions
 of this Regulation and rules

Appointment of School Committees more School Committees may be approved for each apecified area with such powers and in such manner as may be prescribed

8 (a) A parent who, without fawful axcuse
Fresecution falls to send to a recognised
parent,

school's boy, to whom Sec-

biles, shall be inable on connection before a Megapiles, shall be inable on connection before a Megatrale to a fine not exceeding its 2 provided that a warning in writing abail have been served on the parent by a School Committee or by an Inspecting Officer of the Education Department not lower in rank than an Assistant Depoty Inspector of Schools

(b) In cases of repeated non-compliance,

Yeasily for re
peated non-compliance
the parent shall, on convic
tion, before a Magnitrate be
liable to a fine not exceeding

9. Any person who knowingly employs any boy in contravention of the provisions of Section 6 shall, on conviction before a Magu-

trate, be liable to a fine not exceeding Rs 20

- 10 The Government may exempt particular

 Exception of Regn that operation of this Regulalation ton
- tl The Government may, by notification in Extended of Regulation to girls

 Extended of Regulation and the Gazette, extend the prosummar relating to boys within any area to the case of curls also residue : in the said area
- 12 The Government may, by notification in
- (1) for the exercise of the powers of recognising achools and courses of instruction for the purposes of this Regulation.
- (2) by whom and in what manner and to what extent exemption certificates may be granted under Section 4, Sub Section (2).
- (3) for the appointment of School Committee and to define their powers and dottee and to regulate in what manner they ahall be exercised.
- (4) by what authorities sod in what maoner warning shall he given to parents before the launching of a prosecution before a Magistrate, and
- (5) generally for more efficiently carrying oot the provisions of this Regulation.

M VIBVESVARATA,)

FDUCATIONAL DEPARTMENT

Bombay Castle 13th October 1913

No 2945 - The following Press Note No 2012, dated the 10th O-tober 1913 is published for gener at information -

Przez Note

In Press Note No 2393 dated the 12th May 1913 the assetton of the Secretary of State was announced to the scheme for the ratsbilsbment of a College of Commerce in Rombay, and it was stated that the Bereitser of Sists had bern requested to arked a suitable candidate for the post of Principal of the College. The Seversery of Sists has recently firformed Generoum that a suitable candidate has only as here found. Although great difficulties have presented themselves in the way of the arriy opening of the College, parily owing to the above reason, partly in connection with the question of accommodation, and parily because of the recently introduced changes in the University calcular, the Gerecon in Geoscill is glid to be able to announce that these been pusible to concert the following provinciant sereous reasons the side of the principal identition as to the opening of the leatitation before carried into a float.

- 2. The College will for the present be accommendated in the Eiphinatone College building and instruction will be given between the hours of 8 and 10 in the morning and 5 and 7 in the arening. It will preper acceldates for the Bucketoral Commerce degree of the Buckety University, to which it will be affiliated. A for of 18. 40 per cereng or 82 105 for the scadenic year, will be charged to the students and will be payable in advance at the commercement of such term. The College will commerce work for the 250 closest.
- His Excellency the Gorernor in Council is pleased to make the following provisional appointments in the College peoding the arrival of the permanent Principal from England or until forther orders:—

(1) Mr. K Sobrameni Alyar, B.A., LT, Fes A. (London), to set as Principal (honorary).

- (2) Mr Nilkanth Sadashiv Takakhav, M.s., to act as Lecturer in English on Rr. 300 per mensem.
- to act so Lecturer in English on Rr. 300 per mensum.

 (3) Mr. Ramchandra Mabadav Joshi, M.A.,
 LLB. to act so Lecturer in Political Economy on
- Ha, 300 per mensem.

 (4) Mr. Bhaskarrau Vithaldan Mahta, MA-4
 LLE, to act so Lecturer in Mercantile Law on
 Ra, 300 per mensem.
- (5) Mr. Sorsbji Shapurji Engineer, RA., F.S a. (Londoo), to act as Lecturer in Accommoncy on Bs. 300 per measure.
- 4. Condidates for admission to the College most have passed the Previous Exemination of the Uni-

versity of Bambay or the Intermediste Examination in Arts of any other Indian University, or elsa must produce a criticate from the Principal of an Arts College stillisted to the University of Bombay showing that they here estilated rily carried out the work appointed for the first two terms in Arts.

The first term of the College will be from October 22nd to December 22nd, 1913, the second from Pabroary late to April 20th, 1914, and the third from Janes 10th to August 10th, 1914 Students bringuing to the first the will be seen to ple rule laterandials Essamination to Commerce to be held by the University of Bombey in the first watch of September 1914.

Applications for admission should be addressed to the Officiating thomeray Principal of the Collect. Nr. Ajara, at 89. Apollo Street, Fort, Bombay, Mr. Ayar will be at the Elphiestone College between the boars of 8 and 10 Az no the 20th, 21st and 22ad October 1915 for the purpose of intertiaring condidates for admission.

5. His Eccellescy in Gascoll is a connected these importary interpretable directs to acknowledge that there early introduction has been readered possible only through the energy and and recovered falters of Mr. K. S. Alyan, who has opened pending the early interface to the College, to gire his services in almost or the College, to gire his services in almost any other contents of the College, to gire his entry to the College, the Sombiology of the College, the College of the College, the College of the College, the College of the College

By order of His Earrileney the Right Honourable the Covernor in Council,

J. L. RIEU, Secretary to Government. myself in agreement with all that Henri Poincare wrote or spoke in the domain of physics, but no physicat can help being interested in his mode aff presentation, and I may here occasion to refer, in passing, to some of the topics with which he dealt

Scientific Progress and Fundamental Scretticsm

And now, eliminating from our porview, se se always necessary, a great mass of bemanactivity, and limiting ourselves to a scrattay on the eido of pure sciences almo let us ask what, in the mein, is the characteristic of the promising though perturbing period in which we live Different persons would give different enswers, but the snawer I venture to give is-rapid progress combined with faudamental scapicism. Eapid progress was not obsesteristic of the letter half of the 19th contury—at least not in physics. Fine solid dynamical foundations were laid, and the edifice of knowledge was consolidated wholly freeh ground was not being opened up, and totally new buildings were not expected With the reelization of predicted a thee weves in 1588, the discovery of X roys in 1815, spontaneous radio schivity in 1899, and the isolation of the electron in 1898, expectation of further achieve ment became vivid, and novelties, experimental, theoretical, and speculative, have been showered upon on ever since this century began. That is wby I speak of rapid progress. Of the progress I shall say litte—there must slwsys be some uncertainty as to which particular achievement permaceutiv contributes to it , but I will speak acont the foudemental scepticism

Let me basten in explain that I do not mean tho woll worn and almost ant que thame of the ological scepticism-that controversy is practically to abeyarce just now. At any rate, the major conflict is suspended , the forts behind which the enamy has retreated do not invite strack, tha territory now occepied by him is little more than his legitimata province. It is the scientific allies, now who are waging a more or lass sovigorating conflict among themselves, with philosophers join-Meanwhile the anoient foe is bidding his time and hoping that from the struggle something will emergo of benefit to himself Some positions, bu feels, were too heatily abandoned and may, perhaps, be retrieved, or, to put it without metaphor, it seems possible that a few of the things prematurely denied, because saserted on inconclusive evidence, may, after all 10 some form or other, here really happened. Ther, the nid theological butterness is mitigated, and a tomporizing policy is either advocated or instinctively adopted

Some Dominating Controversies.

To illustrate the nature of the fundamental scientific or philosophic controversies to which I do refer would require almost as many addresses as there era sections of the British Association, or, et eny rate as many es there are chief cities an Australia, and perhaps my anccessor in the obair will continue the thema bot, to exhibit my masning very bracity, I may cate the kind of domi oating controversus now extent, omploying as far as possible only e single word in mich case so as to emphasize the necessary brevity and manth esency of the reference In physiology the con flict renges round vitalism. (My immediate predecessor doalt with the sobject at Dundes) In chomistry the debate concerns atomic atructure (My penultimete predecessor is well eversor paguecity in that region). In biology the dispute to na the laws of inhoritonce (My encourser is likely to deal with this subject probably in a way not deficient in livelinesa) And bessles them major controversies debate is ective in other see tione In education curricule generally ere being overhauled or fundamentally criticized, and to volutionary ideas are promulgated concerning the advantages of freedom for mafants. In economic end political science, or somology, what is there that is not under discussion? Not property alone, nor land slone, but everything-back, to the Garden of Eden and the inter relations of men and women Lastly in the rast group of methematical and physical sciences, 'alured over rather then summed up se Section A," present dy scepticism coocerns what, if I had to espress it in one word, I should call cont nuty. The fall meaning of this torm will bardly be intelligible

without explanation, and I shall discuss it presently. Still more large statements and deep rooted that say of these actions also lates, however, according to the action and the statement of the same and the same action of the same action of

DEFENCE OF NAWYORIAN MACHABICS.

Not by philosophers only, but by sensuings used someont postulates are being pulled up by the roots. Zaystatts and mathematician are being must be counseler whether the long known and sellestablished law of mechanics hold true every been and always, or whether the Acctionan schume must be replaced by something more modern,

comething to which Newton's laws of motion are but an approximation. Indeed, a whole system of non-Newtonian mechanics has been devised. having as its foundation the recently-discovered changes which must occur in bodies moving at speeds nearly comparable with that of light. It turns out, in fact, that both shape and mass are functions of relocity. As the speed increases the mass increases and the shape is distorted, though under ordinary conditions only to an infinitesimal extent. So far I agree ; I agree with the statement of fact ; but I do not consider it so revoletionary as to overturn Newtonian mechanics. After all, a variation of mass is familiar ennugh, and it would be a great mistake to say that Newton's second law breaks down merely becaese mass in not constant. A raindrop is an example of variable mass ; or the earth may be, by reason of meteorio dust; or the sun, by reason of radio activity; or a locomotive, by reason of the omission of steem, In fact variable masses are the commonest for filtion may abrade any moving body to a microsconio extent.

Nov. 19137

That mass is constant is only an approximation. That mass is equal to ratio of force and acceleration is a definition, and can be absolutely accurate. It holds perfectly even for an electron with a speed near that of light; and it is by means of Newton's second law that the variation of mass with vefocity has been experimentally observed and compared with theory. I urge that we remain with, or go back to, Nawton, I see no reason against retaining all Newton's laws, discarding nothing, but supplementing them in the light of further knowledge.

MORA DISCOVARY, MORE COMPLEXITY.

One thing is very notable, that it is closer and more exact knowledge that healed to the kind of aciontific acepticism now referred to ; and that the aimple laws on which wa used in be working wara thus simple and discoverable because the full complexity of existence was tempered to nur ken by the roughness of nur means at observation. Kepler's laws are not accurately true, and if he had had before him all the data on warnitable he could hardly have discovered them. A planet does not really move to an ellipse, but in a kind of hypocycloid and not accurately in that either. So it is also with Boyle's law and the other simple laws in physical chemistry. Even Van der Waale's generalization of Boyle's law is only a further approximation.

In most parts of physics simplicity has sooner or later to give place to complexity; though cortainly I urge that the simple laws were true, and are still true, as far as they go, their inaccuracy being nnly detected by forther real discovery. The reason they are departed from becomes known to us; the law is not really disobeyed, but is modified through the ection of a known additional cause. Hence it is all in the direction of progress.

THE FIGHT BETWEEN CONTINUITY AND

DISCONTINUITY.

If we had to summarize the main trend of physical controversy at present, I feel inclined to urge that it largely turns on the question as to which way eltimate victory lies in the fight between continuity and discontinuity, surface of natore at first we see discontinuity; phiects detached and countable. Then we realize the air and other media, and so emphasize conmounty and flowing quantities. Then we detect atoms and numerical properties, and discontinuity once more makes its appearance. Then we invent the ather and are impressed with continuity again. But this is not likely to be the end; and what the nltimate end will be, or whether there is an ultimate cod, is a question difficult to spawer.

The modern tendency is to emphasize the discontinuous or atemic character of evarything. Matter has long been atomic, in the same sausa as anthropology is atomic; the unit of matter is tha atom, as the unit of humanity is the Individual. Whether men or women or children-they can be coented as so many "souls." And atoms of matter can be counted too.

Certainly, however, there is an illusion of contiquity. We reorgaine it in the case of water. It appears to be a continuous medium, and vet it is certainly molecular. It is made continuous again. in a sense, by the miher postulated in its pores : for the wither is essentially continuous, though Osborno Reynolds, it is true, invented a discontununus or granular sether, on the analogy of the aeashore. The sands of the see, the hairs of the head, the descendants of a patriarch, are typical instances of numerable, or rather of innumerable, things. The difficulty of coumerating them is not that there is nothing to coost but merely that the things to be counted are very numerous. So are the atnma in a drop of water-they outnumber the drope is an Atlantic Ocean-and, during the briefest time of stating their number, 50 millions or so may have emporated; but they are as easy to count se the grains of sand on a shore.

THE INTARION OF NUMBER INTO UNSUSPECTED

Raciova. . Electricity itself-i.s., electric charge-strangely enough has proved itself to be atomic. There is a

natural unit of electric charge, as suspected by Faraday and Marwell and named by Johnstone Stoney Some of the electron's stable effects were studied by Crocket in a systeman surwegiting and measuring by J. J. Thomson were anouocoed in the Britub. Association meeting at Dorer in 1899—a fitting prelinds in the Exth. Century

Even magnetism has been suspected of being a atomic and its hypothetical unit has been nau ed in advance the magoeton, but I confess that here I have not been shaken out of the conservative view We may express all this as an impasion of number into ansuspected regions Biology may be said to be becoming atomic, it bas tong had natural units in the shape of cells and nucles, and same discontinuity represented by body boundaries and cell walls, but now, in its laws of heredity as studied by Mendel, number and discontinuity are stitkingly apparent among the reproductive cells, and the varieties of offspriog admit of numerical specification and prediction to a surprising extent, while modification by continuous variation, which seemed to bank the assence of Darwinism, given place to, or et leest sa eccompanied by mutation, with finits and considerable and in appearance discontinuous change Enfar from Nature not making jumps, it becomes doubtful if she does anything alse Her hitherto placed course, more cicsely exemios d_i saema to look like a kind of steeplechase

Xt oodsubted you are a time at respectate.

Xt oodsubted you may be the backbone of reducing, as knowledge the continuous and the continuous and the continuous clean of the continuous clean of breight you for the cheek of the continuous clean of breight you for the cheek of the continuous continu

DISCONTINUITY AND PURE MATRICES.

Discontinuity does not ful to extreme furnation rees in pure mathematics. Urres are unitaed which have no tangent or differential reafficust, curves which count of a successor of does continued to the country of a successor of does read-based to the country of a domination over publication to extra the country of the country publication of the country of the country of difficult and tane-specific these in the sense drawign are budge propounded, and the atomic charaction are budge propounded, and the atomic charater of energy is advocated. We had hoped to be honoured by the presence of Professor Planck, whose theory of the quantum, or indivisible unior atom of energy, exotes the greatest interest, and by some is thought to hold the field.

Then again radiation is showing signs of becoming atomic or discontinuous. The corpuscular theory of radiation is by no means so dead as in my youth we thought it was Some radiation is certainly corpuccular, and even the miberial kand shows indications which may be misleading, that it is as otty or locally concentrated into points as if the wave front consisted of detached specks or patches , or, as J J Thomson says, "the wavefront must be more analogous to bright specks on a dark ground than to a uniformly illuminated surface, thus suggesting that the ather may be Shrous in structure, and that a wave rops along lines of electric force, as the genius of haraday surmised might be possible, in his "Thoughts on Ray Vibration" Indeed, Newton guessed something of the same kind, I fancy, when he superposed a thar pulses on his corpuscies.

IMPORTANCE OF HADIATION.

Whatever be the roth to the matter, directs one on indianto, of extreme weight and interest, though likewiss of great profinedty and technicality, as excepted in Section A. We wiscose Professor Lorentz, Dr. Arrheous, professor the contract of the contrac

Why sa so much importance estached to radiation? Because it is the best known and longest studied link between matter and either, and the only property we are acquainted with that sliccts the nemodified great mass of other slone bleetricity and magnetism are associated with the modulations or emgularities called electrons; most phenomena are connected still more directly with matter. Radiation bowever, though excited by an accelerated electron, is subsequently let loose in the ather of space, and traiele as a definite thing at a measurable and constant pace-a pace independent of everything so long as the ather to free, unmodified and unloaded by matter. Hence reduction has much to teach us and wa have much to learn concerning its nature. How far can the analogy of granular, corpuscular, countable, atomic, or discontinuous things be pressed? There are those who think it can be pressed very far. But to avoid misunderstanding let me state, for what it may be worth, that I myself am an upholder of ultimate continuity and ferrent believer in the ather of space.

. PROGRESS IN THE STUDY OF MOLECULES.

One very valid excuse for the prevalent attitude towards discontinuity is the astonishing progress that has been made in actually seeing or almost seeing the molecules, and studying their arrangement and distribution.

The laws of gases have been found to apply to emulsions and to fine powders in suspension, of which the Brownian movement has long been koown. This movement is caused by the orthodox molecular bembardment, and its everage amplitude exactly represents the theoretical mean free path calculated from the " molecular weight" of the relatively gigantic particles. The behaviour of these microscopically visible masses corresponds closely and quantitatively with what could be predicted for them as fearfully heavy atoms, on the kinetin theory of games; they may, indeed, be said to constitute a gas with a grammolecule as high as 200,000 tons; and, what is rather important as well as interesting, they tend visibly to verify the law of conipartition of energy even in so extrems a case, when that law is properly stated and applied.

Still more remarkable-the application of X-rays to display the arrangement of molecules in crystals, and ultimately the arrangement of atoms in molecules, as initiated by Professor Lane with Dre. Friedrich and Knipping, and continued by Professor Bragg and his con and by De. Tutton, constitute a series of researches of high interest and promise, By this means many of the theoretical enticipations of our countryman Mr. William Barlow and-working with him-Professor Pope, as well av of those distinguished crystallographers von Groth and von Fedorow, have been confirmed in a striking way. Thesa brilliant researches, which seem likely to constitute e branch of physics in themselves, and which are being continued by Mesers. Mosely and C. G. Darwin, and hy Mr. Keens and others, mey be called an a potheosis of the atom.c theory of matter.

ADVOCACY OF A CONSESSABLE ATTITUDE.

Now in all the destable matters of which I have indicated possibilities twent to urge a conservative stitude. I accept the new apprimentable trails on which some of these theories—such as the principle of relativity—are based, and surprofocately interested in temp that I do not feel that they are so revolutionary as their propounders think. I see a say to retain the old and yet

embrace the new, and I urge moderation in the provoting and emoval of liand-marks. And of these the chief is continuity. I cannot imagine the extrino of mechanical force across smpty rpace, no matter how minute; a continuous medium ceems to me essential. I cannot admit discontinuity in either space or time, nor can I imagine any cort of experiment which would justify such a provide a perspense of which would justify such a bypothesis. For surely we must realize that we have a superiment of the provided and the

THE REALITY OF THE ACRES.

Very well then, what about the other-is that in the same predicament? Is that an obstruction or a mero convention, or is it a concrete physical entity or which we can experiment? Now it has to be freely admitted that it is exceedingly difficult to make experiments on the other. It does not appeal to sense, and we know no means of getting hold of it. The oos thing we know metrical about it is the velocity with which it can transmit transverse waves. That is clear and definite, and theraby to my judgment it proves itself a physical agent, not indeed tangible or sensible, but yet concretely real. But it does aluda our lahoratory grasp. If we rapidly move matter through it, hoping to grip it and move it too, wa fail; thera is no mechanical connesion. And avan if was anneriment on light wa full too. So long as transnarent metter is moving relatively to us, light can be affected inside that matter; but when matter is relatively stationary to matter nothing observshie takes place, however feet things may be moving, so long as they move together,

Hence srises the idea that motion with respect to mobine in meaning-less; and the fact that only relative roution of pieces of matter with respect to such other has ofer henc observed is the foundation of the principle of relativity. The respect of the principle of relativity, and the state of the principle of relativity, and development it is an armonistic onsequences which have been worked on by Profession and his disciples with consoromate inspendity.

Now the facts are the too motion with reference to the sother elone has ever yet been observed; there are slways corious compensating effects which just cancel out the movementerms and destroy or effectively mask any phonomenous that might otherwise be expected. When master moves past matter observation

can be made; but, even so, an consequent locomotion of sother, nated the scinelly maring particles, can be detected.

MEASUREMENT OF ÆTHROLL MOTION

To detect motion through m'her we must see on atheres process. We may use radiation and try to compare the speeds at hight slang or across the motion, or we might try to measure the speed, first with the motion and then against st. But how are we to make the comparison P If the time of amission from a distant source is given by a distant clock, that clock must be observed through a telescope-that is, by a beem of light, which is plainly a compensating process. Or the light from a neighbouring source ont he sent back to on by a distant mirror. when again there will be compensation Or the starting of light from a disjout terrestrial annece mey be telegraphed to or, sither with a wire ce without, but it is the mo her that convey the message in either case, so egain there will be compensation Electricity, magnetism, and light ere all effects of the mther Use cohesing then . have a rod stratching from nnn place to senther, and messure that But cohesion is transmitted by the other too, it, as believed, it so the aniver sel binding medium Compensation is likely, compensation can, on the electrical theory of metter, he predicted Use some sotion ant dependent on mther, then, Very well, where shall we find at P

The facts we are 'imprises apoch of some very comprehensive general incidence. The physical discovery of the 20th captary, so far, is the electrical theory of matter. This is the great new theory of our times, it were referred to, in the philosophical sepect, by Mr. Bellinn: in he represents the second separate of the second separate of the second separate of the second second

The theory a bound to have corross consequences, and already it has contributed to some aft has proving end ancertainty that I speak af For it has tree every malerual influencious will be in the time every malerual influencious of the state of the stat

DIFFICULTY OF OBSORVING THE ÆTHOG OF SPACE.

It is the extreme ompipresence and uniformity and nurersal egency of the m'her of space that meles it so difficult to observe To observe anything you must have differences If all actions et a distance are nondocted at the same rate through the mther, the trevel of none of them can be observed Find something not conveyed by the meher and there so a chance. But then every physical action is transmitted by the so her, and m every case by meens of six transverse or reduction like eclivity Except perhaps grantation That may give us a clue some day, but at present we have not been able to detect its speed of transmission et all. No plan has been devised for measuring it. Nathing short of the creation or destruction of matter seems likely to serve creation or destruction of the gravitations nast, whether it he en stom or an electron or whotever it is Most likely the nuit of weight is on electron, just so the unit of mass is The so-called non Newtonian mechanics, with mess and shaps a function of velocity, to an immediate consequence of the electrical theory of metter The electrical theory of metter is a positive schiorement, and has positive results. By its end we make experiments which throw light apon the relation hatween matter and the ather of space The principle of reletivity, which seeks to replace at, is a priociple of negetion, a negative proposttion, a statement that abservation of certain facis can never he made, a denial of sor relation between matter and ather, a virtual decisi that the miner exists. Whereas if wa admit the real changes that go on hy resent of rapid motion, whole field is open for discovery, it is even possible to investigate the changes in shape of an election-appellingly minute though it is as it epproaches the speed of light, and properties beinging to the ather of space, evasive though at be, council lag for behind.

THE FOUNDATION OF MATERIAL CONTINUES.

Speaking as physical I must claim the sibre as pocalisary our even domain. The story of molecules we share with the observat, and matter in its veryors formers is navarigated by all one of scance, but a study of the cities of spece belongs to physical by I am not alone in Jesting the same about the protection of this portenions entity I is crued as the same and surgicial services, combined with claims and study of the properties of the same and surging permanent of the same and surging permanent of the same and surgicial services and the same an

Thomson said at Winsipeg: 'The ather is not a featuastic oreasting of the speculeity splikespher, it is an assential to us as the sir we havather... The actory of this ell pertuading solutiones in perhaps the most fractionating and important day of the physicist.' Matter it is not, but masterial it is as it belongs to the material universe and is to be investigated by ordinary methods. But to to be investigated by ordinary methods. But to mostile and epiritical fonotions to subserve some other order of nisieteness as hes is this

The subset of space is at least the great argine of continuity. It may be most more, for which it there could hardly be a material noivers at all. Containly, he were, it is essential to continuity; it is the one ell-permeating substance that hinds the whole of the particles of matter together. It is the uniting and binding medium without which, if matter could exist at all, it could exist only as shootle and is not sent contained to the contained of the material could exist at all, it possible for wateread medium of communication between world and particles. And yet it is possible for every of one senses, scorp sight—and to that only in an indirect and not saily recognized fashion.

LIMITATION OF PHYSICAL SCIENCE.

I bold that science is incompetent to meke comprehensive drails, wen about the other, and that it goes wrong when it makes the attamp. Science should not deal in negation; it is strong in attendions, but wothing based on abstraction negation processes the strong in a strong in moght to preason to deep outside its war region. It will be a supported to the strong of the strong into computation by another on any be taken into compilaration by another on any be taken

I observe that by some critica I have been called a vitalist, and in a same fam: but I am not n vitaliet if vitaliem means an oppeal to an andchaed "vital force" (ao objectionable term I have never thought of osing) as against the laws of chemistry and physics. Those laws must be enpplemented, but need by no means be superneded. The business of science is to trace out their mode of action everywhere, as far and as fully as possible; and it is a troa instinct which resents the medieval practice of freely introducing spiritual and nuknown cannes into working science. In science an appeal to occult qualities most be illegitimets, and he a harrier to experiment and research generally; es, when anything is called an act of God-and when no more is said. The occurrence is laft unexplained. As an oltimeta, statement such a phrese may be out only true but oniversal in its application. Bot

XIX

there we saveys proximete explonations which may be looked for send discovered with patience. So, lightning, earthquaker, end other portents an archard to natural cances. No ultimate explanation is even steined by science; proximate explanations coly. They are what it exists for and it is the basicses of scientification to easier through them. To attribute the rise of espit or itself force would be absord, it would be giving up the prolime not stating nothing at agriculture of the problem of stating nothing at the semarkable and surprising effect is discovered asks and has been discovered.

THE SCHERPHYSICAL ELEMENT IN LIPE.

Asis well known, thate are more than a few hiologiets who, when taking a broad survey of their subject, clearly perceive and teach that, before all the ections of live things are fully explained, some hithertn excloded cooses most he nestulated. Ever since the time of J. P. Mayer it has been becoming more and more certain that, as regards performence of work, a living thing obeye the laws of physics, like everything else; but undoobtedly it initiates processes and produces results that without it could not bern pocurred-from a bird's neet to a honeycomb, from a deal-box to a warrbip. The behaviour of a chip firing shot and chell is explicable in terms of energy, but the discrimination which it exercises between friend and foe is not so explicable. There is plenty of physics and obemistry and mechanics shout every vital sotion, but for a complete ouderstanding of it something beyond physics and chemistry is needed. And life introduces an incelentable element. The vagaries of a fire or a cyclone could all be predicted by Luplace's calculator, given the mittel positions, velocitics, and the law of secoleration of the molecules; but no methematician could calculate the orbit of a common boose-fly. A physiciat into whose galvanometer a snider had crept would be liable to get phonomana of a kind quite inexplicable, ootil he discovered the supernatural, i. c., literally superphysical cause. I will risk the assertion that life introduces something inculculable and porposeful smid the laws of physics; it thou distinctly supplements those laws, though it leares tham niberwise precisely as they were and

nbeys them all.

Whose only its effect, we do not sea life, itself.
Conversion of inorganic into organic is effected
always by living organisms. The conversion
under those conditions certainly occors, and the
process may be studied. Life appears necessary

to the conversion, which clearly takes place noder the guidance of life though to itself it is a physical and chemical process. Many labors fory conversions take place noder the guidance of life, and, but for the experimenter, would not have occurred.

Again, putrefaction, and fermentation, and purindistion of irrer, and diseas, are not parely and solidy channels processe. Chemical processes they are, but they are mutated and considered by they are, but they are mutated and considered by they are, but they are mutated and considered by the properties of the certificial beautiful partially belonged to the certification of proping of power, philosoph size ploudgets should not attempt to give their censes away to the certification of the

SCIENCE AND SUPERSTITION.

Scientific men are hostile to superstition, and rightly so, for a great many popular apperentitions are both appropring and contemptible; yet coce monelly the term mey be wrongly applied to practices of which the theory is nakrawn To a apperficial observer some of the practices of biologists themselves must appear grossly seper atitions To combat melarie Sir Ronald Rose does not indeed eract an alter , no, he mile a pond -making lihation to its presiding genis. What can be more indicrous than the eprippe and avidently savege ritual, losisted on by United States officers at that hygunically splended achiavement, the Paname Canal- he situal of panching a hale in every discerded in, with the object of keeping off disease ! What more absurd, again-in supertical appearance-then the pracface of butning or poisoning a soil in make it extre fertils? What appears to be quite certain is that there can be no terrestrial manifestation of life without matter. Hence naturally they any, or they approve such sayings as, " I discern in matter the promise and potency of all forme of hie." Of all terrestrial manifestations of hie. How else could it menifest itself save through matter P "I delect onthing in the organism but the laws of chemistry and physics" Very well naturally enough That ts what they are after, they are studying the physical and chemical aspecia or manifestations of life. But life staclf-life and mind and consciousness-they ere not studying, and they exclude them from their purview Matter is what appeals to our senses here and now, materialism

se appropriate fo the meteral world; not as a philacopp but her a working cred, as a proit mate, so i mindute form for guiding research Everphine beyond its telonog is souther exponent of the though the region of the period of the though the capital the period is the trans of physics and chemistry samply impossible, hence there is tendency to dany its existence, acre as an opphenomenon. But all such philosophisms is opigistified, so it really had metaphrane.

Live AND Mied.

But although life and mind may be excluded from physiology, they ere not excluded from somence Of course not It is not reasonable to esy that things necessarily alode inventigation marely because we do not knock against them Yet the mistake is sometimes made. The ether makes no appeal to sense, therefore some are beginning to any that it doce not exist occessionally put into the sema predicament Life is not delected in the laboratory, save in its physical and obsmical manifestations, but we may have to udmit that it guides processes It mey be called a catalytic agent. peveribsiese To enderstand the action of life itself, the simplest plan is not in think of a microscopic organism or any unfamiliar animal, but to make use of our own experience as living beings. Any positive spetance serves to stem a comprehensive denist and if the reality of mind and guidance eod plan se denied because thay make no appeal in aspecthen think how the world would appear to so observer to whom existence of men was unknown and undiscoverable, while yet all the lazz and activities of patore went on es they do now Suppose then that man made no appeal to the senses of an observer of this planet Suppose an ontside phiserver could nee all the eventamentring in the world asyn only that he could not sen enimels or men. He would describe what he sa a much as we have in describa the activities instated by one

If he looked at the Firth of hurth, for tasknow, he would see pura a major the water, begunning to speed, reading across is astrong namer till they actually join or are ploted by pecus attracted for from below to complete the world see a strange and the seed of the seed

Or let him look at the Mile, and recognize the mentorious character of that river in promoting the growth of vegetation in the desert. They lot him see a kind of untoward crystallisation grouing across and beginning to dam the beneficent stream. Blocks fly to their places by some kind of polar forces; "we cannot doubt" that it is by helio or other tropism. There is no need to go ootside the laws of mechanics and physics, there is no difficulty about supply of energy-none whatever-materials in tin cans are consumed which amply account for all the energy; and all the laws of physics are obeyed. The absence of any design, too, is manifest : for the effect of the structure is to flood an area up stream which might have been useful, and to submerge a structure of some hearty: while down stream its effect is hkely to be worse. for it would block the course of the river and waste it on the desert, were it not that fortunately some leake develop and a sufficient supply still goes down-gres down in fact more equably than hefore ; so that the nitimate result is beneficial to vegetation, and simulates intention.

THE RVIDENCE OF Design.

If told concerning either of these structures that an engineer, a designer in London, called Benjamin Baker, had anything to do with it, the idea would be preposterone. One conclusive argument is final against such a superstitions hypothesis-he is not there, and a thing plainly cannot act where it is not. But although we, with our greater advantages, perceive that the right solution for each an observer would be the recognition of some onknown agency or agent, it must be admitted that an explanation in terms of a vacce entity called rital force would be meless. and might he so worded as to he misleading ; whereas a statement in terms of mechanics and physics could be clear and definite and true as far as it went, though it must necessarily he incomplete. And note that what we observe, in such understood cases, is an interaction of mind and metter; not parallelism nor spiphenomenalism nor anything straiged or difficult, but a straightforward philization of the properties of matter and energy for purposes conceived in the mind, and executed by muscles guided by acts of will. But, it will be said, this is unfair, for we know that there is design in the Forth Bridge or the Nile Dam ; we have seen the plane and understand the s gencies at work; we know that it was conceived and guided by life and mind ; it is unfair to quote this as though it could simulate an automatic.

Not at all, say the estreme school of biologists whom I am criticizing, or ought to say if they were consistent, there is nothing but chemistry and physics at work anywhere; and the mental activity apparently demonstrated by those structure is only an illusion, an opiphenomenon; the laws of chemistry and physics are supreme, and they are sufficient to account for everything! Well, they account for things up to a point; they account for things up to a point; they account in part for theme up to a point; they account in part for the part of the account for animate esistence. But do they account for our excepting completely? Do they account for our own feeling of joy and esalataton, for consense of hearty, for the manifest heatity esisting throughout nature? Do not these things suggest something higher and poole and more joyous, something for the sake of which all the struggle for evistence goes on?

DARRER MOANINGS IN NATURAL ORIECTS.

Seroly there must be a deeper meaning involved in natural objects. Orthodox explanations are only partial, though true as far as they go When we examine each particuloured promule in a peacock's tail, or beir in a sebra's hide, and realize that the varying shades on each are so placed as to contribute to the general design and pettern, it becomes exceedingly difficult to esplain how this organized co-operation of parts, this hermonions distribution of pigment cells has come about on merely mechanical principles. It would be as easy to seplain the sprouting of the cantilevers of the Forth Bridge from its piers, or the flocking of the stones of the Nile Dem by chemiotasis. Flowers attract insects for fertilization ; and fruits tempt animals to est them in order to carry scade. But these explanations cancol he final. We here still to captain the insects. So much beauty cannot be necessary merely to attract their attention. We have further to explain this competitive striving towards life. Why do things struggle to exist? Sarely the effort must have some significance, the desclopment some aim. We thus reach the problem of existence itself, and the meaning of evolution

The mechanism whereby esistence softenches itself is manifest, or at least the beso to a large-steam discrept. Natural selection to extend interest. Natural selection course, no fare as it post, but if so much beauty is necessary for inects, what about the beauty of a fand-scape or of clouds? What utilitation object do those subserve? Resuly in general is not taken into account by selector. Very will that may be all right, that it exists nevertheless. It is not my function to discuss if it. No; but it is my function for sciences if it. No; but it is my function for except of the discussion of the six of the

we gibbet ourselres as ladicrously nerrow pedants, and ere felling far short of the richness and falcose of our human birthright. How far preferable is the reverent ett tude of the Eastera poet.

"The world with eyes bent upon thy feet stands in ane with all its silent stare"

Superficially and physically we ere very limited Our cense organe are adapted to the observation of matter, and oothing else directly appeals to us Our nerve nuncle system is adapted as a superficient of the control of the control

TEMPUSAL CONTINUITY IN EVOLUTION

But if we have learnt from science that evolution ia real, wo here learnt a great deal I must not venture to philosophize, but certainly from the point of viaw of science evolution is a great reality burely orolution is not on illusion, surely the naiverse progresses in time. Time and space and matter are abstractions, but ere cone the less real , they are data given by experience and time is tha keystons of ovolution 'The centuries follow each other, perfecting a small wild flower " abstract from living moving reality a certain static aspect, and we call it matter, we shetract tha element of progressiveness, and we call it time When there two abstractions combine, co-operate, interact, we get reshity egain. It is like Poynting's theorem The only way to refute or contave the theory of evolution is to introduce the subjectivity of time That theory torolves the reality of time, and it is to this sense that Professor Bergson uses the great phrase " Creative evolution '

I see the whole of material existence as a steety, passage from past to fature, only the single restant which we call the present being actual. The past is not non exasted, however, it is shorted in our memories, there is a tecord of it in matter, and the present, is based upon, the fature we have come of the present, is based upon, the fature with and come of the present, and is the product of evolution,

Esistence is like the output from a locm. The pattern, the design for the wearing, is in some sort "there" strady, but whereas our loome are more machines, once the gnoding carde here been fed into them, the Loom of Time is romula-

cated by a multitude of free agents who can modify the wah, making the product more besuttful or more ngly according as they are in harmons or dishermony with the general scheme I venture to meintein that menifest imperfections ere thus accounted for, and that freedom could be given on no other terms, nor et suy less cost shilly thus to work for weel or woo is no illusion, it is e reelity, a responsible power which con ecions egents possess, wherefore the resulting febric is out something pre-ardained and inexershle, thou h by wide knowledge of character it may be inferred. Nothing is inexprehle except the notform progress of time , the cloth must be wavoo, but the pettern is not wholly fixed and mechanically calculable.

Where unargenic matter alons is concerned, there excrytaing in determined. Wherever fall concentrations has endered now power runs, and this faculties and desires of the conserous period the scheme here are effect upon the scheme here are effect upon thin, and the scheme here are effect upon thin, so the scheme here is measured as a very nustion. Of this gooding power wear a small, but not whally insignificant, portion

That avoicationary programs is real in adoctors of profound significance, and on afforts at some bettermost re-jointed between we are a part of the scheme, a part, that he become conport that resizes dumly at any rate, when it doing and what it is eniming at planning the arming era therefore not altimate from the whole, for we are a part of the whole, and are conscious of them to consider

SCHENCE AND PRECEICAL RESERVE.

Either we ere ummortal heiggs or we era not We may not know our deating, but we much hare e destray of some sort. Those who make denisle are just as likely to be wrong as those who make separtions, in fact, denisls are assertions, thrown into negative form Scientific men are looked up to me sutherities, and should be careful not be muslead Science mey not be able to revent bamen destiny, but it certainly should not obscure it. Things are so they are, whather w find them out or not, and if we make rath and felse atelemente, posterity will datect as-1 postersty ever troubles its head about us, I su one of those who think that the methode science eie not so limited in their scope as he been thought, that they can be applied more more widely, and that the psychic region can stadied and brought under law too. Allow anyhow to make the ettempt. Give ne a fair field Let those who prefer the metericlistic hypothes

by all means develop their thesis as far as they can; bet let us try what we can do in the psychical regioe and see which wise. Our methods ere really the same as theirs—the and-ject-metter differs. Neither should abuse the uther for making the strempt.

Although I am speaking excathedra, se one of the representatives of urthedux science, I will not abrink from a personal note sommerizing the result on my own mind of 30 years' axperience of psychical research, begon without predilection -indeed, with the usual hostile prajudice, This is not the place to enter into details or to discuss facts scorned by prihodor science, but I caneot help remembering that an uttarance from this chair is no subsemaral production, for it ramaios to be criticized by generations yet neborn, whose knowledge most jestitably be fuller sed wider than oor own. Your President, therefore, shoeld nut be completely bound by the abackles of prasent-day orthodoxy, our limited to beliefs fashionobla at the time.

"PERSONALITY PERSISTS BEYOND BUDGET DEATH."

In justice to myself and my co-workers I most lick sunoging my present bearers, out unly by leaving on record our conviction that occurrences new regarded as occelt can be examined and reduced to order by the methods of science carefully and paraiatently applied, but by going further and saying, with the utmust brevity, that already the facts so avamined have convinced ms that memory and affection are not limited to that association with matter by which along they can manifest themselves here and now, and that personality persists beyned bodily death. The evidence to my mind goes to prove that discarnata intelligence, under certain conditions, may interact with es oe the material side, thus indirectly coming within our scientific ken ; and that gradually we may hope to attain some understanding of the nature of a larger, perhaps atherial, existence and of the conditions regolating intercourse across the chasm. A body of responsible investigators has even now landed un the treacherone but promising shorrs of a naw continent. Yes, sed there is more to say then that. The methods of science are not the only way, though they are our way, of being piloted to truth. "Uno itiners non polest pervenni at tam grande secretum."

PROPURTS OF A NEW ERA.

Many scientific men etill feel in paguscions mood towards theology, because of the exaggerated dogmatism which our predecessors encounter-

ed and overcame in the past. They had to struggle for freedum to find truth is their nwn way; but the struggle was a mistrable necessity and bas left some svil effects. And one of them is this lack of sympathy, this operational hostility, to other more apiritoal forms of truth. We cannot really and seriously suppose that truth begen to arrise on this planet a few centuries ago. The pre-scinntific insight of ganine-of poets and prophets and saints-was of supreme value, and the access of those inspired evers to the heart of the universe was profound. But the camp followers, the Scribes and Phariasee, by whatever name they may be called, hed no such jusight, only a vicious or s foolish obstinacy; and the prophets of a new era were stood,

Now at hat we of the new or have here victorion, and the stones are in our hand; but from to mattes the old ecclesiation attitude would be folly. Let a not fall into the uld mistake of thicking that now is the only way of exploring the multistrong depths of the nativers, and has all others are worthless and mistaken. The universe is alarger thing these we have say occuption of, and no one method of earch will exhaust its researce. May see odd brethry, we say tratestes of the truth of the physical universe as accordingly graphened; that are is a faitful to our truet.

Genotice raligion has its roots deep down in the beart of human esty and in the reality of things. It is not surprising that by our methods we fail to great it; the actions of the Johly make no expect to say special esone, only a notiversal appeal, and now methods area, as we know, incompeted to detect complete entionity. There is a principle of risk rivily here, and notes we consulted fas up a change, subtling in the responder, and of the change, subtling in the responder, and the substitution of the complete of the change, subtling in the responder of the change, subtling in the responder of the control into the worse fabric of raintence, dowing costionably from the foom in an infoliate progress towards perfection, the ever-growing getment of a trans-condect God.

EDUCATION IN THE MAGAZINES (INDIAN)

Enlightened Educational Policy.

His Excellency the Viceroy spoke as follows in rejly to the epech of His Highness the Mabarajab of Mysore during his Excellency s stay at Mysors —

I mest congratulate Your Highness opoo your

collightened educational policy Under your for turing care education is making rapid progress and springing from the Annual Conference of 1911. Your Government have recently exoptioned e generous programme which includes provision for alarge extension of primary education measur es to supply teachers possessed of higher qualin cations, moressed grants for female education and so experimental boarding bonen for Panchames et Mysors. At the same time a special committee assen bled to 1910 to consider the improvement of indestriel education is bearing fruit to schemes for a Technical Institute at Mysore, and a Menha nical Ecgioserrog School and a Commercial School at Bangalore where progress will be made On tentative liose I am gled that the resed question of the revenues of the assigned tracts was last year decided and I am sure that at most be a source of satisfaction to Your Highests to have atrived at a settlement. The more so as an agamination of the thee ecounets show, I noderstand, a belance due to the Derbar of operly 40 lakbe of Rupers It is hardly necessary for me to speak of the relations between the G veroment of lodie sod the Mysors Durbar They have always been intimate and friendly and their harmony will. I om confident, never he disturbed, certainly so fotor as Your Highness is on the Gads and bas, as Rest lent, an officer of Sir Hogh Daly's wisdom end sympathy.

Education in Mysore

At the Mysore Dasara Representative Arson bly the Dawan delivered an eddress in the course of which he suid i—

The year was one of more the small acturity in educational matters. Design first with this ordinary progress of education, the number of public and private iterations necreased by 50 and the attondance by 7,226. The preceding of byps at echool in the male population of school age rose from 30 it to 31 and that of guile at school to bot of male population of school age from 50 at 0.5 The number of pupils order instruction to exceed the school of the form of which have been suffered to the school age from 54 to 65. The number of pupils order instruction to comparison with the population of the

State gives a personing of 29 A great deal more remains the done to epiceal primary offication in the Siste, A special giant of two lakes and a laff—one state for opening one Francy and a state of the state of the state of the lath and a half for the construction of Village School boldings—was associated during the year, and a similar special grant of 2½ lakes has been suscitioned in connection with the current year hadget. The Government have an doubt text the Department of Education is fully always that the Department of Education is fully always practical flicit to the virians, impositor is themselt that are being practicated from time to time

With regard to higher education, forther arrespective ware in progress to complete the equipment and the staff required for the two Birstgreds Colleges to shapt them to the new Dirstgreds Colleges to shapt them to the new Dirstlets of the Colleges of the Colleges of the Colleges become the Colleges of the Colleges of the Colleges to covery overly complete and provides emplosecome modelation for the classes concerned.

Government have noder consideration the question of opening Hoodure Courses for both the First grade Colleges in certain branches in the near fotors.

A comprehence achone of simmotory and acreaced Tubones and Gommercial education bas been approved by Gonzonnect and it consists in the main of the establishment of the Chamerry order Recharted Institute as Mysors, and a Commercial node A Mechanical Engineering School as Bargakore. The present Kogineering School as Bargakore. The present Kogineering School and the Industrial School at Mysors will be combined to form the eacless of the new Union Tubone School and the School Institute, which will be facilitied in the specious building agreeally constrained in the specious building agreeally constrained in The sensities will count of the America and The sensities will count of a Resident School and the Sch

the Engineering Section, the Industries and Crafts Section, the Endineries and Crafts Section, the Fine Arts Section, the Commercial School Section and the Workshop

Lessons econoling to the preserved carried on area brang requirity given under the scheme of religious and moral scatronion introduced in November 1003. After nearly five years: a speciment and the scattering of the scattering to scattering the scattering of the s

less atereotyped. The question has to be ferther discussed as to whather in the long run it is ant wiser to leave this branch of education to the parsets and communities concerned.

la view of the growing selections satisfities of the State and the need that it salt to ensure that the iocreased grants given are milliard to the heat advantage the appointment of Dapaty Legentor-Goneral of Education has been anoticead. This officer will be extracted with the direct charge of Vernacular adocation, both Elementary and Scondary, in the State.

The University and the State-

There was a very large standance at the meeting of the Education Section of the British Association on Soptomber 12th, when the general subject under consideration was "The Function of the Modern University in the State" Principal Griffiths presided.

Sir Aifred Hopkinson, who opened the discussion, referred to the greet change in the relationship of the Universities to the State dering the last 40 years. Oxford and Cambridge were prectically the only Universities of the country 40 years ago, and it was striking to see the enormous growth which had taken place singe than. There was so idea that the Universities then were not in close relationship to the State. It was perfectly true that the State made on grants for their support and in no way interfered with the menagement, except by accasionally appointing Commissione, but there was really the very closest relationable. Those who were responsible for the government of the country wore practically drawn from the two Universities. as were the permanent officials, Whae an important post is the Columns was to be filled. it was as likely as not that the Minister of State agnt to the Master of Balliol and said. " Sand me a good man." A man who was forming his Cabinet knew what stuff the man he was inviting was made of, and he did not wont to see the nid eystam cotirely done swoy with in a horry. In the same way the Clergy, the Judges, and the Press were thon vory largely supplied from the old Universities. That state of things had altared, but he doubted whather it would ever entirely disappear, and he did not think it would ho an advantage if it did. Twn great new factors had appeared in the last 40 years, the fasteese of the growth of Universities in the big centres of population and the advancement of the democratio movement. At the present moment, though it was not so originally, the main differentiation

between the newer and the older Universities was mut that they estadiod different subjects or that nee was not be higher or a lower type, but that the modern nees were in receipt of State aid at the present time. The position of receiving large State aid introduced on entirely new element.

He took it that the function of the University weathreofold. Forty years ago the object put before the tutors of the colleges was to raise up a due empply of persons fitted to serve in Church eed State. That was the first and foremost fnection. The second object-and that was especially the work of the Universities in great centres of population-was not to shot up their iofinonce simply in those who were their etudents. but as far as possible to be centres from which certain ideals would be put forward and certain ietercets slimulated in the whole of the community in which they were placed. He was not one who despised popular lectures, and he hoped that their influence would extend. He hoped that the Universities in fixing their coorse of etudies-end he spoke with greater freedom than be would have ventured to do a few months ago-would remember that their object was not en mech the training of specialists as of the cultivated merebent or manufactorer who would have a knowledge of the subject and would also here some interest in the life which was quite rempte from his ordinary bosiness. The third Inputing was the ectoel adding to knowledge, and he believed that nothing was more fruitfol than that the experienced mind should be brought into contact with the young setire mind. They much get rid of that most pestilential bereay of all that existed, that the University was a thing founded to give degrees. He recognized that they were a necessity, but he bolieved that they were originally invented to atimulate people to work at a time of lile when corporal posithment was no heger possible. Let them got rid of the idea that the University professor ought to spend half his time and all his temper on discussing what the degree regulations should be and in alteriog tham from time to time. He hoped that they would always see some representatives of Sinte Departments on the boards of the moderen University, for that was all to the good. As repards the relations of the Universities to Parliament, nobody who had anything to do with public life could help recognizing the enormona advantage of University representation in Parliamant. There might be ressons for altering it, bot they appealed to a different type of mind from his. The State now recognized the need for financial assistance, and soccessive Chancellors

of the Exchequent had seted wasaly and thereby in the spoker that had adopted. They had does had been had being grants at first. Such grants would have been wasted, and a yether and programmer. On the health of the second of t

Education of Women

The anniversary and prize distribution of the Overmone's Orli's Sobol, Genter, was held in the College Hell, on the Edd instant noder the presidency of Mice Roy Mrs Rhotens, Enspire treas of Schools Northern Cirole, delivered an interesting address on the "Education of Women," in the course of which she said.

The drivef emacapetion of women lies at your very door, it is your first dety, an impera tive call that takes no denial It is the Ley to national development. Davelopment cannot be one sided, confided to one sex slone. A netion that has produced a Pegond has also given birth to a Medeme Carre Two femone novelets, one English, the other American, heve written novels, having for metive the principle that a system founded on the subjection of women to doomed to perish. Every impulse of membood in you must respond to the appeal to give your women the best possible. There is a fund of postical fashing in your people, it finds expres sion here and there in the posme of a Toru Dott. a Sarojini Naida, a Rabindranath Tagora Doss it not help you to picture merried life, reised shove the plane of expediency and custom to a beight where the cultured women of trained intelligence shares her bushand's life in every phase ? Such a companionable as netifica the marrings tie, Again the character of a women is a valuable asset in the training of her children, and character is the product of aducation and experience. I have a strong balis in personal epplication for driving bame e truth, and in illustration of my meaning, I will tell you am incident that made a strong impression open me Some years ago I was staying with a lady who had a small son of short S. On one occasion, the child was playing on the verendah at midday thoroughly engressed in his game when the

whietle of so approaching train sounded sud elmost ammediately the child houst into tears and rashed to his mether. A soothing word or two effectually consoled him, and he was carried off by the servent to his mid day real The lady caplemed afterwards that the whistle of the trem was the signal agreed upoe for the cessation of play and the mid day sleep. The trainmg the child was thereby receiving was invaluable. To say polluled of regularity of habit, there are the acceptance without demnr sfier the first anvelontary eethorst of his mether's wash and the lesson to place melination second to duty The fandemental bases of character hang the same prespective of casts, creed, colour, may this task of moulding a child a character be source. ed to a child mother? I have touched on the ettitede of the husband and the peril of the child tle life of the wife and the mother with its meagre outlook, its limited scope, the negation of the development of the cetural powers may best be described in the sweet leaguage of your own portess, she lives " with all her blossoming hopes unbarrented, her joys ungernered, and her songe nnseng" I remember yeare ego reading en extreet from a Freech book in which the writer anticipating Herbert Spencers idea of a punishment to seit the offece drew en these lices pictore of the tormen ie that awaited the enregener-To take one case, Nero, whom History has accredited with the boartleseness of fiddling when Rome was burning has to expiste his mos is the next world as a blind fiddler begging from door to door. Given the powers of Plato, what pomehment to suit the offence would one be tempted to mete out to the intellectual Indiao of the day? Why ' he should be placed behind a pardah, No. be should be bolted and barred within with the pote and pane and he given for mental sustenance, Maredon's Fourth Reader | while his women folk should be lifted to the Seventh Heaven of the resheation of the joys denied them on earth But I will out leave you with this gloomy outlook for ynnrselves Yeu shall believe with me to a new India where the social fabric will be reconstructed on the loom of a common humanity, the warp and woof shall be equal apportunities, equal rights, equel privileges for men and wemen alike Gire the woman the epportunities for intellectual attenument equal in degran if not in quality in that of man, let her emerge from her position of social margnificance, enlarge the range of her activities, and the gift rescing upon the giver will result m e fallness of life for him bitherto undresmt of

[&]quot;Yet in the long years closer must they grow. The man be more of woman, she of man,

He gain aweetness and in moral height, Nor lose the wrestling thews that throw: She mental breeth, nor feil in childward care, Nor lose the childlike in the larger mind ; Till et the last she set herself to men, Like perfect masio unto noble words."

The Calcutta University. Mr. C. C. Ghose's Opinion.

Mr. C. C. Ghose writes as follows to the " Nation" :-

I crave the hospitality of your columns to draw the attention of the English public, and aspecially of the educational world here, to an present matter of definite public importance in Bengal which has arisen within the last few months-namely the policy that is being followed by the Government of India, in its Education Department, towards the University of Calcuits.

The Indian Universities Act of 1904 passed by Lord Curzon's Government, ennacisted the ideal to which the existing Universities were to come nn-namely that they were to cesse to be merely exemining bodies and convert themselves into teaching Universities. The policy ennuciated by the Government of that day and embodied in the Universities Act of 1904 has been religiously followed by the Calontte University, Since 1904. the University of Calentta, under the leadership of its distinguished Vice-Chancellor, Sir Ashatosh Mookarjee, bas established several chairs - namely the Minto Professorship of Economics, the George the Pifth Professorship of Philosophy. the Hardings Professorship of Applied Mathemstics the Carmichael Professorship of Ancient Indian History, and is shout to establish the Palit Professorships of Physics and Chemistry. Applied Mathematics and Botsov, The Calentia University has also been able since 1904 to institute various conress of lectures by such distinguished scholars as Professor Schneter, Proisser Hermann Jacobi, Professor Harmann Oldanberg, Professor Andrew Russell Forsyth, and we in Calcutta are looking forward to listening, in the near future to Dr. Paul Vinogradoff, Moneigns Sylvain Levy and Dr. Otto Strans of the University of Kiel. The Government of India, in its Education Department, however, are apparently appalled at the adherence of the University to the terms of the Statute of 1904, and their policy as far as one can make out at the present moment is to break up the colder-Universities like Calcutta by a process of starretion (the Gorernment of India, in its Education Department heve refused to contribute any large sums of money towards the catchlishment of the recently proposed University College of Science in Calcutta), and to establish new ones in the provincial towns, where in the nature of things the decrees promulgated by the Ciril Service from time to time would in all probability be registered by the governing bodies of the proposed Universities and not anhiocted to that searching criticism of pfficial acts which had hitherto proceeded from the University of Calcutta.

In the second place public opinion in Bengal be a recently been startled by the proposel of the Government to abolish the Matriculation or Entrance examination of the University of Caloutte -an examination which had since 1857 been controlled by the University only-and to replace it he a School Final which is not to be controlled by the University but by the Government Educetion Department. This woold and could only mean that only such schools so the Gorernment chose from time to time coold prepare emdente for edmission to the University and that the Government would practically and in ectual practice, appoint the echoolmaster-that is to say instead of a small modicum of liberty being allowed to Indiens in the very important metter of the education of their boys and girls, the existing privileges such os they are, ere to be taken eway.

The proposal has caused the most widespreed elarm in Bengal and it is reasonably certain that. unless the Government very largely modifies the scheme, there will be a tremendons egitation in Bengal, es loud and an vigorous if not more so, se the egitation against Lord Corzon's Pertition of Bengal. What Bengal wanted and prayed of the English people was to be left slone for a number of years. We have just passed through the throes of an acute agitation and we would beg of the English people and of their agente in Indie, to be left in peace, and to be allowed to develop the education of our boys and girls on normal lines. If England granted that prayer such progress would be made in Bengal as would rejoice the heart of every true Liberal and of everyone who takas a jost prida io India.

(FOREIGE)

Indian Students in America. .

The careful attention of students in India is drawe to the following points by the Balletin of

the Hindasthan Association, U. S. A .: --(1) There are nearly 20 first class inetitutions

in the U.S. A. equal to the hest in the world

which teach Laterature, Art. Economies (theoretical and applies) Seemon of Glowerment, Sonology (theoretical sed applied), Education, all the Pure Sciences enther Applied Seemon, thice all branches of engineering, medicano and surgery, agrinulture, chemistry, physics, etc., in fact, all branches of homes knowledge. The equipment of laboratorism and the price is nearly all of these roundled, to be found only in some of the best Universities of the Control of the Contr

(2) Graduates in the scence courses of the Lodau Universities will fed ber submitted op portunities for protein training end research work in the laboratories which they can never find in India sood only with much repeate of the second training of the second training of the second training of the second training of the various experimental stations and as expensers and otherwise it factories as many of our rationies are doing, and in this way they can get whishle expenses, as do command good salary.

(3) Graduates of Indian Universities who have studied systematically the history, philosophy, art, hierators, and civilization of India, can find opportunities as lecturers and professors in the American Universities and will thus be doing an immense service to both the countries.

(4) No one should come to America as a statent notes has has pared the Metriculation examination in India and be should then be examination in India and be should then be the statent of the statent

(5) Self support is possible all throughout the country, but it of difficult, though not impossible to work sed go to college at the same time. Only those that are reconcered, energies bardworking, and carried can accord. A few of our self supmoved of the bare fined through many have accorded the properties of the properties students were hard and berring at the properties at the preparation of the which are recomprised, when successful, by the supreme fly of a self under mallower.

(6) We would advise students intending to be

cell supporting in have a practical knowledge of the following, before they start from Inde, capentry, surveying, drafting, brick laying or platering, which are well paid trades in America.

(7) No student, without any senous purpose should come to America. Life in America with a handle come to America. Life in America wind plane shing, hai full of hard knocker. Neither as education or degree cash; obtamble. They will require just as hard and more conscentions work as in India, that with the difference that will him server and plant, the will will bring increasing interest in the work and power and field in one's ability. Sentimentally young men with crangerated opinion of their powers should not come as students.

(8) Students, whather self supporting or otherwise, should have at losst Rs. 350 to 400 with then when they land m America as they will be required to show Re. 150 to the immigration officers before thay ere allowed to land. It is advisable that they should have more money for expenace for et least four or five months. To evoid trouble we would edrise students to land in New York or in Seettle and hetween Europe to America or Jepan to America they should travel second class. Information about ateamers and rates can be obtained from the steamship offices in Calentia and Bombay. Students should better bring their University certificates and also of the college of hat ettendancs with mantion of subjects studied. If the stodents should write to the local officers of our Association in advance, the name of the ateamer and the date of arrival, they will arrange to meet them at the time of landing and help them in all possible weys. A little study of the map of America will be very halpful

(9) One of the main purposes of our Association is to help our fellow-students in Indua to come to American for education. The beauth of our expression will be alway given at send to them, pression will be alway given and senous students any come in larger numbers as there is room for thomsands of our students in the schools and onlegge of America. The general Secretary will gladif formuch all information about education in America.

English Literature in the Modern University. Sir Sidney Lee's Views

Bir Sidney Lee, who has been lately appointed by the Senate of the University of London to one new char of English Language and Literators, delivered his inaggural lecture at East London College, where the Professorably in tenable. The chair was taken by Sir Cornelice Delton. The following are entracts from the lecture :-

True literature had in matter and manner to star intellectual or emotional interest, transcending any impression produced by the record of a liberal experience. It made a thresfold appeal-to the mud, to the heart, and to the ear. bhakespears's work was the greatest contribution to English literature. But the student would not wasely ignore any book which had been admitted by recognised authority to a permanent place ru the scale of fame. The study of Euglish divided itself into four main branches-criticiam, history, philology, and composition-all which asked for concurrent treatment. Criticism was at the root of the whole matter. The ultimate good derivable from the academic study of English literature largely depended on the Protessor's practical interpretation of that chameleon-like term. Criticism of English literature was best defined as 'exegests'-the leading out of a book all that was in the It embraced all means of throwing light on the text of a piece of writing and of drawing forth its full meaning; it examined the form, described the modes of composition, traced the sources of inspiration, showed the strangth or weakness of the author's thought and feeling. It sought to secertain the true torce and value of literary matter and manner. Hoom must always be lett in the fabrio of literary study for the play of the student's individual taste and judgment. The reading of books should be a bracing exercise, a wresthog with ideas greater than any tue student could create for himself. By the special student comparative criticiam of literature could not be salely tgoured. No great national literature ever subsisted without toreign nutration. 'A people,' wrote Walter Pater, witooot intellectual commerce with other peoples' had never doos anything conspicuous in literature. A piece of great literature was a mighty chain of which the links were forged in many workshops. In literary history, the second division of the study, they sought the external circumstances-political, social, economic-in which literature was produced. Literary history co-ordinated the phenomena. It should be no skeleton of dates and names, no charnel-house of dry bones. It should be a thing of flesh and blood, a living guide to the practical expedience of the author and a moving picture of his environment. Philology dealt with words, the raw materials of literature. It had all the characteristics of an exact science and had the same disciplinary value. It embraced every aspect of language, and included the study of phoneticsthe science of pronuctiation which was a potent torce in the formation and wansformation of words. Turning to the last blanch of literature the practice of composition—Sir Sidney last down the arton that no one wrote good English who had not read good English with appreciation and intelligence. Assimilation was a main element in effective literary composition. Ex nihilo nihil . fit was a partinent masim.

Originality usually meant the earing, in a more convincing, more impressive, more beautiful way, of something nearly resembling what had been said before. That conclusion applied not only to men of mediocre capacity, but to men of the highest genius; Shakespeare's work was an exemplification of st. R. L. Stevenson becams a writer by * playing the sedulous ape to Haslitt, to Lamb, to Wordsworth, to Sir Thomas Browne, to Defoe, to Hawthorns,' Students should form the habit of drinking in the matter and manner of their anthor intuitively, instinctively, Impressive passages should be read aloud or committed to memory. The way in which paragraphs were boilt no shoold be carefully noted. The student should come in the light of his reading to realise that the merit of writing was proportioned to its simplicity, directness, good taste, and sincerity. Whataver une's walk ru life, whether they became men of science or engaged in commerce or in work of administration, the power of writing well would always increase their efficiency and contribute to their success. Complaint was commonly made that. owing to defects in their educational system, command of clear and pointed language was more parrrowly distributed in England than in other countries. It was sometimes alleged that Army officers, man of science, and schoolmasters could not write intelligible English. Such defects, if true, might be remedied if avery student devoted some part of his time to an intelligent study of great English literature. All great literatures held in solution the spirit of liberal culture, such as Universities exist to disseminate. But their own . interature now sujoyed a patent of precedence in the world at large. In France, Germany, Russia, and Italy it was reckoned to be a liberalising agent; it was hard to dispute that English literature at an Eurush University should fill a foremost place in the hisrarchy of literary studies. It was to be hoped that epecial students would follow the stimulating examples of foreign students of English in foreign Universities and engage to original research. There was room for freah labourers in the field, and the best proof of the Professor's success would he in the endeavour of one or more of his students to better his instruction and to make paths for themselves in naknown territory. The laboratory of the English student was the college library,

BATIDE ETACE.

The student should have at band the best texts, edited on scholarly lines, of every author who had contributed to the nation's literary achievement. Lie should have, in addition, wise and pertinent comment and all treatises of philology and literary history, which lent cenume help in interpretation. The test of a good commentary lay in its terreness and relevance, its value was in inverse retio to its hulk. Up-to-date hibliographies were reliable amplements of work. At the same time, the student should seek to form a library of his own. The cheap reprints which abounded gave the atodent whose pecuniary rescorces were small the opportuoity of sequiring for himself the records of great thought, great ideas, great emotions in conclusion. Sir Sidney said that, spart from any purely scademic aspect, literary sympathy and sothusiam made for human happiones, giving consolation in times of sorrow and adding zest to the encorment of good fortuos. He held that academic training could stimulate the healthy growth of a love of right reading sod even create it to those in whom it had not been implented by our ronment. His hope was that in the encorrion of students who would graduate from East London College there would be many who would spread far and wide m the outer world the glad tidiogs of literature s

THE UNIVERSITIES.

CALCUTTA UNIVERSITY.

Special Meeting

A special meeting of the Senate was held at the Sanate House, College Square, on Saturday, the 15th instant, to transact the following :---

- The Syndreste to recommend to the Senate that a Congretulatory Address he presented to its Excellency the Vicercy and Chancellor of the University on the occasion of his furtherming visit to Calcutta
- 2. The Syndicate to recommend to the Senate that a Special Convocation he hald for conferring Honorary Degrees
- 3 The Syndicate to recommend to the Seveta that Honorary Degrees be conferred upon the following gentlemen on the ground, that by reason of emissant position and situations, each of them is in their opinion, at it and proper person to receive the degree proposed to be conferred upon

Dr. Peul Vinogredell, M.A., DOLL, LLD. Dr. Hief., Dr. Jor FRA., Corpus Professor of Jurispradence Oxford—Honorary Degree of Doctor of Law.

Dr Hermann Jabcobi, Ph D. Professor of Secakest in the University of Bonn-Honorary Degree of Doctor of Literature.

De. William Henry Young, M. J., p.sc., F.S., Herdinge Professor of Methematics—Honorary Degree of Dector of Science.

Dr. Reshbihery Ghose, Cell, Cit, WA, DL-

Mr Rabiodracath Tegore-Honorary Degree of Doctor of Literature.

Mr Henry Harbert Haydeo, G.I.E., R.A., R.C., R.G., Director, Geological Survey of IndiaIfocorary Degree of Doctor of Science.

Dr Sylvain Lavi, D Litt, Professor, College da France, Paris-Honorery Degree of Doctor of Laterstore

Ordinary Meeting.

An ordinary meeting of the Scoate was held at the Scoate House, College Square, on the loth material meeting of the Scoate to transact the following among many subjects of importance

To recommend the appliciment of Mr. C J. Hamilton, u. i. the Mintel Professor of Economics for a term of five years on a salary of R 12,000 a year, in recommend Mr. Robert Koos, w., as Assartent Professor of Englands for years on Mr. 750 a month, to produce the control of the control of the University Lecturers with the proposited as University Lecturers with the Mr. Mr. Mr. Mr. C J. School of the Comments of t

Dr William Henry Young.

Dr William Heary Ynung, the distinguished mathematicum, who has eccepted the post of Hardings Professor at Cleuita University, has arrived in India and has been paying a short visit to Sinda He will lectors on mathematics at Calconia University doring the enting cold

PUNJAB UNIVERSITY.

weather

The Board of Studies in History of the Pouple that the Board of the 20 h October that the attendance of BA Bonners students at the Unirewith Polisted Science Lectures should be optional, bat that for MA students the attendance at all lectures should be compulsory and that a list of sheatness should be forwarded to the Colleges concerned. The lectures on Political Science will be given on Fridays at 6-30 r.w., at Forman Christian College, Labore.

ALLAHABAD UNIVERSITY.

O'DWIER MEDALS INSUGERATED.

Rai Babadur Pandit Nand Lel, 18.0 , bas just sent through the Agent to the Oovernor-General in Central India a 31 per cent. Our rument pro-missory note for Rs. 1,800 to the Comptroffer-Oeneral, Calcutta, who is the Treasurer of the Endowment Funds. This amount was subscribed by the people of the Indore Residency Bazaar to commemorate the memory of Sir Michael and Lady O'Dwyer for the deep interest they took in the cause of education. From the interest of this amount, a silver medal, styled the "Sir Michael O'Dwyer Medal," will be given every year to the boy of the Indore Residency School who stands first in the Matriculation examination of the Allahabad University, and the rest of the money will be utilized in giving a medal or prize for the girls of the Lady O'Dwyer Girls' School, Indore, which will be atyled the " Lady O'Dwyer Medal or Prize,"

TECHNICAL EDUCATION.

TYPEWRITER TOPICS.

ONDERWOOD VICTORIOGS IN TYPEWEITING

CLORIOGS IN TALEME

CONTASTS.

Miss Bessie Videlman, of New York, was the winner of the professional typewriting championchip context held at the huminess Exhibition at the Colissum in Chicago. Operating at Underwood typewriter, Miss Friedman best her former record of 107 words per minute, by writing at the rate of 118 words to the minute for thirty minute.

Miss Besis Linsitz, of St. Louis, won the championahip of the Middle West by writing at the set rate of 109 words per minus, for thurty montes. Miss Linsitz site operated an Underwood machine. The Chicago city championship was won by Miss Winifred Kenna, operating a Underwood typewritar, at a net rate of 84 words or minute for a seriod of filter minutes.

The typewriting contests were the chief attractions of the show and drew thousands of visitors to the Exhibition.

THE BIG L. C. SMITH BURINESS BLOCK IN SEATTLE.

As important event in the typewriter world is the fact that the forty-two story L. C. Smith building at Scattle is nearing completion. This building at the highest in the world outside building is the highest in the world outside of New York City. Plans for it were started by Lyman G. Smith, who, with his brothers, Mestra-W. L., M. O., and H. W. Smith, founded the L. C. Smith & Brox. Typewriter Co. This building will be the home of the Scattle office of the J. C. Smith & Brox. Typewriter Co. This building will be the home of the Scattle office of the J. C. Smith & Brox. Typewriter Co.

Hamington Nores.

The last number of Remington Notes gives us an opportunity to say something highly complismentary about that organ. Published solely in the interests of stendardspare, it gives diverse reports of the proper methods of typing that aid typing the state of the proper method of typing that aid typing the second of the property of the second of the last number of Metaras comes plendid rises of the last number of Metaras comes plendid rises of the Panum Chall, pictures despicing the right and wrong method, for the pographers sating at their dasks and interesting article and photograph protraying a Chieses typewriting class in Staurnis.

Type under Topier.

STATE SCHOLARARITE,

It will be remembered that a Committee was appointed by the Secretary of State to enquire into the system of State Technical Scholarships established by the Oovernment of India in 1804. The Committee, which comprised Sir Theodore Motsson (Cheirman); Sir K. G. Oupta, Mr. J. H. Raynolds, Prof. W. E. Delby, Mr. P. H. Dumbell (Secretary) and Mr. R. E. Field (Assutant Secretary), bare submitted their report. The Committee . beld its first meeting at the India Office in May 1912 and then visited Glasgow, Leeds, Manchestar and Birmingham and recorded evidence. Altogether during the provincial meetings the Committeetook evidence from 75 witnesses, of whom 29 were professors and other representatives of the Univeresties and technical colleges, 28 gentlemen intimately connected with ratious industries as owners. and managers of works, etc., and 18 Indian technical students. Further evidence was recorded at the India Office in July of the same year when among others Sir B. N. Mookerjee, Sir D. J. Tata. Ser D. M. Hamilton, Mr. Ambalal Sarabhai and Dr. A. D. Denning were examined,

The Committee make the following general recommendations : Students sent to this country

should ordinarily here read in India up to the stendard of the B Sc. or B.A. with science or have obtained an equivalent diploma, wherever poemble students should be familiar in India with the industry which they are sent here to study. They recommend elasticity in the system of selection. s.e., the principle of choosing the man rather than the redustry. Local Governments should, in meking selections, consult the business men and Directors of Industry in the province They recommend training efter selection period to be extended so as to realeds works experience. The method of securing works experience is a matter of continued organisation and dependent on the continued co-operation of British employers, Should the appeal to the patriotism of British manufacturors, write the Committee, meet with less response than we expect, it may prove possible to exercise influence through the Stores Department of the India Office."

The recommendations then deal with the question of the amount of scholarship, restince of the trules for Government scholars, return to lands within a specific period and measures for missing returned scholars to secure employment. They recommend that exceed the kept of the after surveys of Government scholars and regular reports he sent to the lands offers.

The financial effect of the recommendations will be additional espenditure, but the Committoe think it will be simply justified. They urge that only the clifs should be trained at the public expense.

The general conclusions are stated as follows :---The results estained so far justify the continuation of the system of Golsrament Technical Scholarships, end with the modifications which we have suggested the system may be expected to yield even better results in the future, but this expenerve form of training et public cost should only be given to e well-chosen few who may reasonably be expected to help the industrial development of fedur. We recognise that the openings for such men are not at present numerous, sod that the most argent demand of Indian industry at present is for skilled mechanics, and we are in complete sympathy with the efforts now being made for giving in India e better training to men of that class. But the necessity for educating the erturant does not preclude the desirability of harrog a limited number of man with the highest technological training, capable of holding posts of control. Both classes are needed for the development of Indian industry, and opportunities for the sm-provement of both should be given simultaneously. THE GOVERNMENT SCHOOL OF COMMERCE, CALICOT.

The Heaville Sir Aifred Boures, Director of Pethic Institution paid a supprise rists to the Government School of Commerce on the 25rd ultimo, where he was received by Bao Shills Sir Airchards tyre. The Headenstern of the Sir Airchards tyre the Headenstern of t

CALCUTTA SCHOOL OF COMMERCE.

Mr O K. Sen, officetting Principal of the Government Commercial Institute of Colcutts, and gono to Benday on deputation by the Government of Bengal to investigate the working office commercial schools and colleges of Bombay. He had a long internew with Mr. K. S Juy-Bootoury Principal of the nawly-created Sydenbara Commercial Institute.

Reviews and Hotices-

THE GOSZEL OF SY. LUKE, EDITED BY J. F. BICHARDS AND T. WALKER. PRELIMITARY EDITION. (UNIVERSITY TUIDRIAL POESE.)

The edden have brought ont a rety metaate biblical tody in the volume. The introduction as e mine of reliable information and
there is hardly sorting wended by the student missed there. The summary and the maps are non-evently fastness. Now that such hardly somolevently fastness. Now that such hardly sohope there will be a more action restudy of that misserpreces by included for the property of the misserpreces by include a filterizar sol there are hardly any books to English prose which can give such a misselle training to the nuclear of 11/16, and Diblis. The editors might probably the set of the book.

Bures Thoughts on the Present Discosients, adited of W. Murison, Ma. (Cameridge University Press) 2s. 6d

"It is a book always in season," asys Andrew Liang, of Burke's Thoughts on the Present Discontents eod we are glad to bave such a handy edition as this, by the Cambridge University Press. There is an unfortunete tendency on the part of the authorities of Indian Universities to avoid the writiogs of Burke as if they were dangerous in the extreme. There cannot be a greater binuder than this, for it deprives the Iudian student of English literature of the privilege of reading one of the greatest of English writers, remarkable slike for his nobility of sentimeets as well as logical coherence of thought. is not only the students of History and Political Science that ought to go in for the book, the lay reader will find it sufficiently interexting and instructive to deserve his attention. Mr. Murison has brought together all the material necessary for a comprehensive understanding of the book. He has furnished the book with au introduction remarkable for its thoroughness and fullness of detail. May we suggest to the Cambridge University Press that the book may very well be cheaper?

THE PERLIMINARY ESCLIRE COURSE, ST A. M. WALMELEY, M.A. (UNIVERSITY TOTOGIAL PARSE.)
1. 6d.

This book is intended to meet the requiresents of Ilité School classes in the matter of the sindy of English Grammar and Composition. Two or three ralmble features of the book strictum as specially qualifying the book for the purpose for which it intended. Grammar bas not been rendered unnecessarily complex; there is sufficient attention bestored on its relation to the practical work of composition and there are a number of ralable exercises.

THE CHILDREN'S ANTHOLOGY OF VESS: JUSIOS, INTERMEDIATE AND SENIOR. (MACMILLISM & Co., Ltd.) 4d.

Mesur. Miscoillast's Ohidron's Classics working a revolution in the Interature provided for the young student at school. The books under review bring before the child e number of pieces of English poetry, particularly interesting as appealing to childhood. Quite encoesting tatempt has been made to include only pieces of hierary morits. The littartions—some of them representing the properties of the proper

The Continent of Europe, by Professor Lional Lyde. (Macmillan & Co., Ltd.) 7s. 6d.

The anggestion was made by a distinguished Indian edocationist a few years ago, that the subject of geography might very well claim attention even in the College classes of our Universities. It was then felt in some quarters that the literature on the subject was not of a sufficiently high quality to merit being studied by students in the University classes. We confess a reading of Professor Lyda's book on Europe has convinced pa of the great possibilities there are, of making it a subject of sufficient interest and urefulness to the College sludent. Professor Lyde is quite an anthority on the subject on which he writes, and be has the most convincing theories of his own, on such questions as land-formation and so on. There are a very large number of maps and illustrations, lutended to make the matter more vivid to the reader. We have nothing but praise for the clearness with which the materials have been arranged and for the thoroughness and grasp displayed by the writer. Dealing with the centinent of Enrope as a geographical entity, it was probably not possible for Professor Lyde to devote much attention to some of the more recent devalopments of industry and civilisation in the verious countries. There is not in the book again any adequately descriptive writing of the great cities of Europe and places of interest in the various countries. Everything is anhordinated to physical geography-but it is clear by the title. The Continent of Europe, the author did not Inlend anything else. We wish however the work had been made more comprehensive by a treatment of these aspects also. We have bowever no hesttation in saving that every teacher of the geography of Ecrope in this country must provide himself with a copy of this book.

1. Exaccises in Louis, of F. C. Bertlett. (University Tetorial Press). 2c. 6d,

2. CHILD MIND, BY BENJAMIN BUNVILLE. (UNI-YARSITY TUTORISL PRESS). 2s. 6d.

The "collection of exercises is usually intended for the use of candidates offining Logic at uncertainties as the Matriculation and Intermedite Estantizations of London University." The purpose is modest enough and it is adequately falfilled by this small volume. The exercises (beaut 40) are all good. Clean and concise directions.

tions are given for solving the exercises in every

chapter Within its own hmits the volume is excellent The necessity for it, however, is not apparent. We feer that too much attention rebeing devoted to the 'practical ende' and too Ereo granting the paremount importence of ' practical work,' we cannot see the necessity for this volume, since, not to speak of the excellent exercises in text books such as those of Mellone and Cre ghton, the Tutorial Press itself has pub habed an excellent little volume of . Outstrone on Logic" by Mosere Holmen and Irwine Were the book cheaper there might be some excuse But as it is, the price is too high for a mere volume of **GEORGIAGO**

The Child Mind is s an introduction to perchol ogy for teachers " Mr Dumville has performed his task admirably The volume is uniformly interesting It blends psychology and teaching in a most happy manner. The latest psychological methods and results are adopted and applied Teachers have not yet got rid of the cotton that the mind is a tabula rate, a blank sheet of paper that can take in eny impression. Books like Mr Dumville a will suon serve to dispel their ignorance and teach them that "we learn by doing" (p 25) Chapters VI and VII based on McDougall's Social Psychology, deserve special notice Atten tion mey also be drawn to the lest chapter treation of 'back werde and soper normals ' These are by no means rare in our colleges, where the class rooms are (physically) full, and the suggestions made in that chepter are consequently well worth attention Oo the whole, it may be said wilboot disparagement to works like those of Prof Drummond and Mr Spiller, that, since James' Talks to Leachers, this is the best and most interesting volume of pedagogio psychology in a emall compose,

SHORTON ALGEBRA, OT W. W BASSE, M A. ASD A A. BOURYS M A. (HELL AED SONS.)

Most of the Textbooks on Elementary Algebra ere voluminous and "contain a great loose reasoning As a result, the Text book in need only for the sake of exemples" Messra Beker and Burne bers, to their 'Shorter Algebra" carefully avoided all such drawbacks The Shorter Algebra is an adeptation of tha Flementary Algebra by the same enthors, ra modelled on modern lines to suit the Syllabus of the Medrae School Finel Exemination and that of the Mairiculation Examinations of the Indian Universities They have omitted the more complicated portions and added a considerable number of useful exemples especially on quad ratin equations. The examples at the end of each chapter are graduated and well selected, and we here un hesitation in recommending this peeful book as a test book for High School classes

THE ATALL VIGRAM PHARMACY ALBOM -We are in receipt of so excellent sibum brought out by the Atank Vigrab Pharmacy, Jemnegar The album to full of pictures consisting of the sites of the various branches of the business all over Iodis and also of the proprietors, the managers and the staff of the head office at Jemnagar

THE CALCUTTA BOYS' SCHOOL CHRONICLE.-This se published in the interest of the boys of the school at 72, Corporation Street, Calcutta, once a month, the yearly subscription being Re. 1 8 0. The Pencapal is the Editor in chief and the staff of the echool are the Assistant Editors We with the Magazina every species

THE MALABAS LITERARY SOCIETY, CALLERY The first Annual Report of this Society has been published The Hon bla Justice Sir C Sankaran Nair, CI a, is the Petron Seeing the good results of the work of the Society during the year, the future is very hopeful, and we hope the Society will as years roll by become the centre of light and learning for the Melaber Butrict

Indian Educational Motes MADRAS

Hie Excellency s visit to Salem College - His Excellency was received at the Salem College by Mr E S Bamesem: Ayer, Municipal Charman, and Mr S A Shate, Principal of the College, Mr J E Stone, Special D rector of Public Leature. tion, and Mr A G U De Bozerio Assistant In spector of Schools, were also present

His Escallency was taken round the various Laboratory, where students were engaged in con-ducting some experiments. There were three girls working at the laboratory and one of them told His Excellency that ahe proposed to take up the study of Medicine after taking her B A Degree.

His Escellency and party left the College after sending a few minutes there, and accompanied by Mr Stone mapected the sits proposed for the con struction of a new building for the College for which purpose the Government has announced a grant of Ra. 80 000

. His Excellency's visit to Government Girls' School, Salem .- The Government Hindu Girle School is located in a small building enclosed on all sides by high compound wells in a lane shotting the Big Bazeer Street in Salem. The school has on its rolls 364 girls and the attendance is about 289. The staff consists wholly of qualified femals teachers-Instruction is imported in English and Tamil on to the seventh standard and three higher standards ere attended by shout 25 grown-up girls, tha majority of whom, however are non-Brahmane. His Excellency the Governor was accompanied by Mr. Bedford, Mr. Cotterell, and Captein the Hon'his Conison Fellows, A. D. C. and were received at the school by Miss Lynch, Inspectress of Girls' Schools, Centrel Circle, and Mr. J. H. Stone who had been there at the time. His Excellency was condocted into the premises, where he saw the classes at work. After the inspection some of the younger girla entertained His Excellency the Governor and perty with ection songe, dencing, and dialogues which were much eppreciated, the performance having been given in a greceful and charming fashion. The big hall of the school and the verandebs were decorated with paper feetoons and mottoes of welcome.

The following remerks were made by His Escellacy the Gowern or the visitor's book:—"I visited this school to-day and saw all the classes, consdencing, eet keeper and the constraints of the constraints of the constraints of the sioping, both in English and Tamii. The children clow well and observed . The stiff seem capable and statestre, the buildings siry and consense, perhaps a little overcrowded and when more surreconding playmonth or our spece is possible, it will be seen of the school." much pleased with all I have seen of the school."

Education of Convicts. - The following G. O. has been issped - With a view to provide for the educetion of convicts, the Government in G. O. No. 1573, Judicial, dated 10th October 1911, directed that a system of instruction confined to reading, writing and arithmetic should be introduced tentetively in three selected joils, was, the Penitentiary and the Central Jeila at Cannenore and Rejahmundry. Reports on the working of the system since received from the Superintendents of those Jails show that the experiment has been attended with success and the Government are therefore pleased to direct that similer arrengements for giving instruction should be introduced in the remaining first-class Control Jails in the Presidency. , The system followed at the Rajahmandry Jail la, in the view of the Director of Public Instruction, well saited to requirements, and the Government consider that it may be adopted with advantage elsewhere.

A Prize-distribution.—The annual distribution of prizes of the Catholio Elementery Girls' School, East Gate, Madura, was held in its premises on the

23rd altima et 5 30 P.M The Hon'ble Mr. K Rame Ivenger was in the chair The premises of the school and the hell were testefully decorated and there was a large gathering of ladies, both European and Indian, gantlemen of the town, heaides a good contingent of school girls present. After a welcome song by the children the report of the echool was presented. The report showed progress and activity throughout the year ending Slat March 1918, the ettendence having risen remerkably. Nine new mistresses were employed, a teacher in English being else employed The scheme of studies, as prescribed in the Educational Rules was strictly followed; details of management were given. The report over, on Keglish song was sung and the Chairman distributed the prizes, which wee followed by some drills The Chairman made a few coccluding remarks of moch interest in which he referred to she liberal grants made by Government for ederation and the enormous efforts then are necessary to educate the girls especially in the Medora District where they had only shout 60 schools for girls in 4,133 essages Bev. Father J. A Plancherd proposed a hearty vote of thanks to the Chairman and with the singles of the National Anthem, the function terminated.

Poor Scholars' Fund of the Rejahmundry College. It is notified that the Governor of Fort St. George in Council, in exercise of the powers conferred by Section 4 of the Cheriteble Ecdowments Act. 1890, doth order and direct that the securities and money oow in the hende of the Accountant Coners! of Madres of the veius of Rs. 2,200 shell yest in the Tressprer of Cheritable Endowments for the territories enhiect to the Government of Madran ood be held by him and his encourages (agbject to the provisions of the said Cheriteble Endowmente Act, 1890, and to any roles which may from time to time be fremed therenoder by the Governor-Ceneral of India in Conneil) upon trust for the purposes and subject to the conditions set forth in a scheme onder Section 5 of the said Cheritable Endowments Act, 1890, for the adminutration of the said Poor Scholars' Fund of the Covernment College et Rajahmondry.

It is also notified that the Governor of Fort St. George in Council, in exercise of the powers conferred by Section 5 of the Charitable Endowments Act, 1890, has settled the following scheme for the administration of the above accumitee and money rested in the Tressorer of Charitable Endowments.

The Principal and the Senior Lecturer for the time being of the Copernment Arie College at Rejahmundry shall be the administrators of the said Poor Scholers' Fund of the said College.

The interest according on the said Poor Scholers' Fund shall be distributed enoughly in the form either of scholarships or grants to poor and descripe students in such proportions as may seem fit to the said administrators, having in view the amount available and the needs of the applicants.

All interest on the a d Poor Scholars' Fund that may not be required for the proposes of the said accolarships or greats shall be accommisted and such accommistions shall from time to time be inrested in this accretice of the Greenment of Iodia and be added to the pricoipal of the endowment.

Roard High School Amaleparam -The audiverserv of this institution came off on Saturday evening. the 15 h instent with Mr J J Cotton M A 10 S, the District and Seasons Judge of Rajahmundry in the chair The new Sub Collector Mr H R. Bardswell M A, ICS was slen on the platform and there was a very good a idience all the chie of the town being present. The proceedings began with the Headmaster s report which showed steady progress in all directions. Reference was also made to the west paid to the school by the D rector of Public Instruction a couple of months ago. The Chairman then distributed the pe gas including the "Ashe Memorial Gold Medal instituted by Mr Goute Lakebmeans BA aL an alumnus of this idetita tion and swarded to the VI Form boy who stands first in English The prizes to the winners at the Scorts Competition held here recently were also given away on this occasion. The Chairman complimented the school on the good work done by it and on the reputation it has earned in the Circura A vote of thenks proposed by the First Assistant a lovel song in Teluga sung to eccompaniment by s few grels and three cheers to Their Imperial Majestins which were lustily responded to brought the proceedings to a close

The Breuten College—It has been practically actiled to beed over the above matitation to the Government The Director of Public Instruction was at Tellicherry to connection with this proposal

Educational Greats—Ont of Rs 55000 sano though by the Malabar Detrict Board towards grants to the Elementary Schools in Malabar Tellicherer Talak Bard gats Rs 16235 Wyoned Rs 9,307 Callect 7039, Malapperem 15911, and Pelghat 7357

Government Subildy for Lower Elementary Schools—The Government have anxioosed the distribution of a sam of Er 28 500 to the Dutries distribution of a sam of Er 28 500 to the Dutries of providers deduced tacking except the purpose of providers deduced tacking except the best between the burde as the highest schold Ont of the third as the highest schold Ont of the Er 28 500 and 1800 and the Calicus and Fright Mucle patters Er 23 and 1800 and respectively.

A deverament grant.—The Madras Government have senctioned Rs. 1000 from provincial funds to

the Rev Dr. Steechen, S.J., Ph. D., Professor of Physics St. Xervir & College, Dombay, towards accounted with the radio activity and accounted with the radio activity accounted to compact the Residency of the Review of the Review of the George of the Residency of the Review of the Rev Dr. Steechen in certains of the Rev Dr. Steechen in certains of the proposed investigation.

Scholarships to Moplab Stadents—The Gorer months has pleased to sword a scholarship of Br 9 per messen to each of the four Moplab stadents studying in the Intermediate class of the Brenner College. Tellicherry

The B High School Library Southy—The fiftheaurrents measured the Penewar Schermanyes High School Larary Strengy was hadden the Ennade Laberry, Majapore, in some of sectors, we should be storned with the strength of the str

The proceedings of the crossing communical with the about proper and a loop that colorating programms consisting of recitations, and the extension of a process from Mr. B. Bakkeperar 'As You List' I. I taking for two barres that concentroops in the material the Screen and the concentroops in the material the Screen and the concentroops in the material the Screen and the concentroops in the material to Screen and the concentroops in the material to Screen and the concentroops in the concentroops in the concentroops in the concentroops in the concentroops and the processing its 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1959 of the years for page 18 1701200 as agreement in 1950 of the years for page 18 1701200 are page 18 1701200 as agreement in 1950 of the years for page 18 1701200 are page 18 17012

Mr S Brunvass Alysager than delivered his address to the students the subject closes being "What our boys need." The meeting terminated af or the Chairman's remarks with the soul rote of thesks to the chair and the lecturer.

ALLAHABAD

Pelacipal Jennings and the Mair Central Collega-A methylog of borders was hide in the littleper Hist, MacDonnell University Hinds Bennings of Hist, MacDonnell University Hinds Bennings Historical MacDonnell University Hinds Bennings Historical Hinds Hinds Hinds Hinds Hinds Inge extherence and among these present were his large extherence and hinds the conlegation of the hinds of the hinds of the Hinds Hinds Hinds Hinds Hinds Man Distinctory; Mil Hindsor Lais Hands Handson Hindson Hindson Hindson Hindson Hindson Cheren Das, Dr. D. R. Raojit Singh, Munabi Jebwas Seron, Dr Meichend Tandon, Jisha Pranhutam Das Teodon, Babu Ram Bali Bali, Mahamahapadhysys Pendit Gange Neth Jia, Mr. C. C. Ohoch, Babu Abbay Cheran Mokurji, Paedit Shiradhar Pendey, Pandit Ram Dolare Bajos, Peedit Kait Pratap Dabo, Pandit Baldeo, Jian Dava, Babu Sainh Chendre Dri. Paadid Dave Narten Baisen.

The proceedings commenced with the reading of eneddress to which Principal Jennings replied in suitable words. In the course of his reply be gevo some edvice to his atudents. He said that that was perhaps the last occasion on which they would expect him to give them some words of edvice and therefore he would do so then in a few words. He wanted them to thick what was the object of the education they were receiving? To him stappeared that the chiect of learning was to know their duty to the State-eot to any forme State that might come. bet to the present State. But what was their duty to the State ? It was a difficult question, but Carlyle would help them to decida what it was. He said that it was the duty to their neighbours. They would be doing their doty to the present State, if they did their doty to their neighboore. He saked them to endeavour to cultivate a sense of that duty -the duty of kindliness to their fellow-students and to one another.

The Hartin Chauter High School, Scareer—The annual price distribution of this school took plees recently under the presidency of Mr. Molony, I C.S. Commissioner, Busares division. In view of busape stoner took the apportunity of presenting a Sasad and title sphility to Rel Banked H. Abbaye Caran Banyal, F. C. S. late Professor, Queen's Colleges and title sphility to Rel Banked H. Abbaye Caran Banyal, F. C. S. late Professor, Queen's Colleges and title sphility to Rel Banked H. Abbaye Caran Banyal, F. C. S. late Professor, Queen's Colleges and title sphility of the Caranta and the Car

The report of the school read by the beadmaster briefly nerreted the progress made by the school and referred to the used of extending the school building. He thanked the Covernment for the generous grant of He, 9,500 for science laboratory.

The Commissioner then made e langthy apeach is which he referred to the services in education of Rai Abhaye Charan Senyal, the late Rai Sebih Priye Nath Ghose of Jauupore and of B. Vaidye Nath Charantee of Senyal Charantee of Senyal Charantee of Senyal Characteristics of the Characteristics of the Senyal Characteristics of the Ch

COCHIN.

A Scholarship Fund r-Vadakkathale Poorashil Davasy Suroed and Vadakkathale Thortumkat Chacha Kunjippala of Kandakkadavu requested the Government to purchase their buildings with compand in which the Sirkar L. S. School et Kandechankedavn is held and invest the capital amount and utilise the interest thornol in awarding scholarships, in memory of H. H. a Shastinoorthi. to the best students of the school for prosecuting their study in sey of the high schools in the State The sboys petitioners in a subsequent petition especial to accept the price effered by the Borbs amuniting to Bs 8,000 for the buildings and the compound. The Dawan Perakksr was therefore asked to take uncessary steps for acquiring the ebove buildings eed compound. The Dewen Penbkar has now forwarded his sward smounting to Re. 8,000 velating to the same. The award is eccepted. The Chief Engineer is requested to take necessary steps for placing the sward amount at the disposel of the Dawsu Poishkar who will take processary further steps in the matter and hand over the site and buildings to the Director of Education after complating the traesactions. The empont of ewerd will, as proposed by the petitioners, materia of being banded over to them he invested in the name of the Director of Education in the National Bank at the uanal vate of 4 per ceek intercet and the interest of Rs. 320 per acre m shall be utilised for the award of scholarships as required by them. The Director of Education is requested to submit definite proposals. in consultation with the petitioners for the swerd of the echolarships to the extent of the interest emount every year for the approval of the Dawan.

Forcian Notes.

Registration of Teachers -An important atogoin the scheme providing for the registration of the teaching profession in Lugland was reached recently when the Teachers' Registration Council, approved of regulations noder which teachers may be admitted to the Begister. Three regulations will now be submitted to the Technological Committees in Formitted to the reconstruction of the order in Council of February 29, 1912. It is espected that the regulations will be officially published after the nest mosting of the Council at the and of November. The former Register, which was abolished in 1907, proved unaccrptable to some sections of the teachiog profession for the reason that memby it claesified teachers in two columns-Column A for teachers in Elementary Schools and Column B for those in Secondary Schools. By section Ideal the Education (Administrative Provisions) Act, 1997, power was given to provide a Register in alphabetical order and in one class, but hye years elepsed before the Teachers' Registration Council was constituted by an order in Council In the naw Register Secondary and Elsmentary teachers will be antered on the granting of a certificate by the Bard of Education. It is now stated that the cocditions which have now been framed will meet with soccutance from teachers of all classes; that the body of registered trackers will, in tame, represent all grades of the profession and will form a valuable moses for expressing the collective views of the profession on matters of

[Nov. 1913.

oducational policy. It was possible on the pose closely associated with the movement that the Closely associated with the movement that the Registration Concell will not only promote the solidarity of the teaching profession, that will est in an element capacity to other hodies conserved on in electronic administration. The effect of this reducation is described by the profession of the elimination is described by the profession of the elimination is described by the profession of the will have the opportunity of messing technical metallic and technical institutions and Clementary Schools, and thus promote the organism only of education.

LITEBABY NOTES.

It may be taken for granted that no hook of verse published during the preach easons will have wore easer welcome than Mr. Kipling's Scope from Book," which is shortly to be massed by the bin of the property of the text of so many of his pross hooks, and consequently includes some of his beginner in the property of the text of so

Principal J G Jannings of Muir Central College bas abridged and bru fly ennotated selected passages in the non-political speeches, addresses and writings of Mr Arthur James Balfour The selection has heen made from the collection entitled ' Arthur heen mane from the conscious continues arroar James Balfour as philosopher and thinker' selected and arranged by Mr. Wilfrid M. Short. Of Mr. Belfour e eminence both as a politucian and a philo-nopher its a needless for one to speck. He is easily the forement debater in the House of Commons and his speeches sra always a delightful reading, if not often convincing Clear modern English, always cultured, often elavated, and at times rising to beights of elcquence, touching upon themes of beights or exquence, toucasing spon and with warred and hiring interest; humen, same, with whenever mineling of gravity and homour' this is heppy mingling of gravity and homour' this ta apseches, and it is a correct and happy character-ization. Being interested in the Indian University education, Principal Jennings felt that here was matter mora capable of holding the attention of our students of Euglish literatura than the carage of writers who died in ages ' that even for the average Fuglishman can accroely be made to live sgain Here was English, Mr Jannings further felt, that is written and spoken now, and which wforeign sindent might adopt without fear of speaking w quaintly entiquated tongue. Simple, direct, virile, it should influence his speech and mind for good The publishers are Mesers, Longmans, Green and Co.

"The New Pucyclopædia' which Messra. T.C. and E. C. Jack bern just poblished contains in its 1,660 pages, it is claimed, as much matter as is naturally to be found in sirge volumes, and the publishers, in the confident especiation of a wide circulation, have merly faid the price at the case.

tremely low figure A very useful and practical feature is the arrangement whereby the various subdivisions of a subject are all grouped together thus facilitating rainrence and enabling a student to endy the enblect in all its bearings. The editor has paid special attention to scientific and philosophical matters, and the intention has been to provide for the needs both of the ordinary reader and of the serious student, and in the department of geography thu number of places deals with compares favourably with the best known gazetteers. In so comprebeusive w work as this, conciseness and compression wre of course and spensable, but the editor believes that this object has been obtained without sny sacrifice to clearness or accuracy. Particular cars has been taken that the book shall be quite up todate If, for example, we take the article Adrianople, or the account given of the French President, M Raymond Pomears the reader will find him or have self applied with the very latest and most up-todate reformation

The new issue of the "Orlard Duchousty" and double section unclosing the wards "Touthy disable section unclosing the wards "Touthy and has been propered ander the self-section of the section of the self-section of the section of the self-section of the self-section

An illne'rated edition of "Tom Brown s School days" nearp cted from Messre Sidgwick and Jackson this month edited by F bidgwick, with a preface by Lord Kilbracken. The illnetrations will methods coloured and other plates and reproductions of portests and contemporary views.

The fifth of Mr E V. Lorus's hierard collections of Essays "Lorterer's Harvest," is sunounced by Masses Methnen for publication.

SCHOOL AND COLLEGE SPORTING NEWS

Triplicane Wesleyan Mission High Selical Sports Club.

Under the aspires of the abore Obb, serees inciset, Ecoball, Bademinton, and Heckey matches are bring regularly played. One of the most interesting was the Boothalt match recently played. The order of the Boothalt matches are bring as the Boothalt matches are bring to be a bring matches are bring to be a bri

M. O. A. Association Fool-ball League.

MEDICAL P PACHAITAPPA'S.

The match between the abova teams was played recently on the Medical Collega Ground. As on the pravious occasion, the match ended a draw, one all. Loganathan and D'Coste ware the most dangerous of the Medical forwards while Ragavendra Rao stood out prominant in the Pachshipaps's attack.

ENGINEERING COLLEGE &. THE TEACHERS' COLLEGE,

A rather ope-sided game was witnessed in the return match between the above terms played on Minday evening at Saidapet. With 4 goals to the lead, the Teachers played op and one of the Engineering defects behading the bell inside is be presented to the benefit of the said of the sai

LAW COLLEGE &. THE HOTAPCRAM MEDICAL SCHOOL.

The return match between the above teams were played recently on the S. L. A. A. ground. Whila the Rojapuram Mediccae were at full strength, the Lawyers in the absence of a boot of their good men had only a very indifferent team. The match ended in a very case win for the Rojaparam Medicocae by 6 goals to mit.

Passipracy v. Wralkt.

The abova teams met for the second time this areace, on the Presidency College ground recently and as before the homesters accred a victory by a comfortable margin. The Presidency was left winners of the match by 3 goals to mit.

MEDICAL & PARSTRENCY.

Ideal weather favoured the meeting of the above tame in their reform fattors recently on the Freedomey College ground. Though both teams impossible ty than navoidable sharces of the official referes whe was unfortunately taken ill auddenly. The play was less and fairly error and the Medicon who have been aboving remarkably good form in vin by facely to mil.

PACUAITAPPA'S G. LAW.

The shove teams, neither of whom has proper ground of its own, met in their return Exters recently on the S. I. A. A. ground. The Pachaipappa's wen ate match by 3 goals to mit, a score which hardly does justice to the aplended fight put up by the Lawers.

Hockey Lagua.

Wesley o. PRESIDENCY.

The first match between the above tenus in connection with this Tournaparts was played recently on the Presidency Collega ground. When it was the property of the Presidency of the Presidency of the manually 3 goals to mit, but the Presidency bed only themselves to blame for this, for two out of the three goals registered by the mistore could have the presidency of the p

M. C. A. Association Junior Football Tournament.

The match between the above teams were played on Friday the 14th Nov. 1913 on the Madrage

grounds. Buth aidea played exceedingly well, but in the end tha Wesleyaus were left winners of tha match by I goal to mi.

Bishop Uniten School Sports, Bangalors. The august Athlatin Sports of the Bishop Cotton Boys' School was recently carried ont on the school ground, The Band of the Bangalora Rifle Volunteers added in large measorn to the liveliness of the proceedings. The programme was a generous paerunning to as many as aixteen avents, of which saven were got off on the opening day. The most totable awant was the mile race, won by Goy Adolphus in Smins, d'secs, which the Warden said, on good anthority, at the price giving, was a local record for air years. There was generally much enthusiasm displayed in all the contests, the entries being nunenally large. R. Prica won the 100 yards in fine alyle, C. Johnson running a good second; O Johnson wan the high jump at 5 ft. I in ; and also carried off the shot put, his throw reaching 40 ft. 6 ins. A tug-of-war between the school and its staff resulted in victory for the staff, the struggle lasting 3 mins. 12 acc. The 229 yards went to R Prac, and the long yamp to the same competition; who shaw most the 440 yards with C Johnson second. The large-fiver in your term in the potential positions in the borders and day scholars, the former winning easily. There was an interesting erect for perceit and the staff which was won by Mr. Ince of the staff, and a race for the servants of the riched was most first price. It was quite described in the servants of the contract of the servants of the contract of the servants of the contract of the servants of the servant

A FOOT BATT, MATCH

The 27rd allume witcessed a monetotes another in the shape of a seel between the local Senta Creat the shape of a seel between the local Senta Creat and the seed of the seed

Baldern High School Sports at Bangalors.

The angust Atthers Sports of the Baldern Blay. School were held on their ground near Richmool Park there have gereated on their ground near Richmool Park there have gereated on the Richmool Park there have gereated on the Richmool Park there have gereated the Richmool Park the Rich

Crucket at Bangalora GENERARE P. LONDON MISSION HIGH SCHOOL

The above match was played on the Gymkhan ground and resulted in the School getting a big threabing. For the Gymkhana Lucas, Sykes and Conningness contributed length to the score and cut 56 extras the Gymkhana totalied \$77 runs for 9 wickets expent to 9 by the School

Medras University Convection, 1973.—The annual Convocation of the University for conferring Degrees was held on Taureday, the 20th section I line Excellency the Chancellor presided and the Howble Deean Fabbader LD Awemistance Files delivered the sansit address.

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The Educational Review.

We, as being the oldest aducational magazine in India, offer a most Welcoms to the Viceroy. Excellencies Lord and Lady

Hardings to our midst. In a recent number reviewed elaborately his views on education and the stetesmanlike policy of educational expansion he has holdly initiated, and it is unnecessary to enlarge on it further here. We shall morely content ourselves with pointing out that the future History of India will set more store by Lord Hardinge's Educational Policy than Delhi Durhars and legislative reforms ; the effect of these is immediate but evanescent. As Carlylo never wearied to assert, it is not the method of voting but the elevation of actional charactar that will improve the country; we must look to the schools and not to the hustings for being potent factors of national growth. History now-a-days cares more for describing the life of the people, than the grandenra of courts : the economic difficulties of England are now known to have been more powerful in bringing about and keeping up the Hundred Years' War then the amhitions of individual kings; the desire of a people tu move sway from an outworn form of faith brings about a change and not so much the eloquence of a great preacher. The movement is more important than the man. Levees and Legislative Councils do not touch, much less mould, the hearts of the common people, who slone make real history : hut education will end that is why we effech such a great importance to Lord Hardinge's activities in the expansion of education in India where the night of ignorance is so thick,

It is peculiarly fit that the principal public function to be held by the Vicercy is the foundation of the University Library.

The Madesa University claims to be a modera University (though the impartial critic has to admit it is far from being one since one can hear in its meetings the most primitive, quite ante-denvian educational principles). And so far neither the contents nor the organization, neither the locality nor the habitation of the University Library is a credit to the University. The University Library is not a place to which you drive in the cool of the avening to read the most recent ingenious instification of the violation of the Seventh Commandment in the shape of a noval or the latest tale from spook-land, but a place where the research-worker can make himself acquainted with all that has been achieved in the special department of science or history he is interested in. It is not costly apparatus that the research-worker wants so much as np to dateness. Now, books, however necessary for a Library, can never be up-to-date enough for a research-worker. Specialist-magazines, papers read before learned societies in England. France, Germany, Italy, Anatrie, Russie, the United States, Canada, Australia and South Africa it is these that he wents and their provision in easily available form ought to be the objective of e naeful University Library. Not things that help tosching or exeminations -these College Libraries ought to providehat things that sam up haman achievement day by dey.

We publish elsewhere in this journal the text of the Mysore Elementary ary Education Regulation Education Regulation of Mysore.

Regulation Vof 1913. We concretulate the Govern-

meet of His Highness the Mahareje, and the beneficent, enlightened roler, for heving placed en the Statute Book a measure of sech farreaching import as this one on education This measure embodies in spite of its moderation the recognition of the responsibility of the State for the education of the masses-a responsibility which has long since been recognised in theory, though so effect hea been given to it so far in point of fact. The following passage occurs is the Despatch of the Court of D rectors of 1854 'It is one of Our most sacred doties to be the means, as far as in Us lies, of conferring upon Netives of India those vast moral and material blessions which flow from the general diffus on of useful knowledge and which India may under Providence derive from her connection with England *

This declaration was interpreted by the Education Commission of 1882 as the equivaleut of an acceptance of responsibility that the schootien of the whole people in India was definitely accepted as a State duty." The Despatch went on further to say 'Our attention should now be directed to a consideration if possible still mora important, and one which hea hitherto, We are bound to admit, heen too much seglected, samely, how useful and practicel knowledge suited to every station in life should be hest conveyed to the great mass of the people who are otterly incapable of ohtenning any education worthy of the name by their own nearded efforts, and We desire to see the active measures el Government more especially directed for the fature to this object, for the attenment of which We are ready to sanction a considerable increase in expenditore,' The Education Commission of 1882, which among either subjects was asked to enquire bow far the policy laid down in the Despetch of 1854 in regard to elementary education had been carried cut,' made the following two, among other, recommendations ---

(a) "While every branch of edection might jostify claim the festering care of the State is a desirable in the pressed circumstances of the constry to declare the elementary edecation of the masses, its provision, extension and improvement, to be that part of the educational system to which the streamost efforts of the State should now be directed in still larger measure than herotofera."
(a) "An attempt the made to secore the

fullest possible provision for an expansion of primary education by legislation soited to the erromatances of each province.

These were recommendations made in 1884 and that a measure of compulsory edocation should be adopted in 1913 in an enlightened Native State would be ordinarily no matter for particular satisfaction, bad it not been for the circumstance that in this important concern the Netive State takes precedence of the Government of India. That is not all It meet be said to the credit of the British administration of this very Native State that even before the Commession of 1882 formulated their recommendations, a scheme of free education had been adopted, and adopted two years before the great Education Act of 1870 It is this that is at the foundation of the Education System of Mysore It was in 1867-68 that sanction had been received for the establishment of 146 hohls schools in the State as a beginning in 'a system of estional schools for the Province,' a beginning was made by selecting 146 out of the 645 hohlis in the Province and these schools were to be aupported by the proceeds of a cess Educe tion was therefore made free except for those not contributing to the local-fund. These echools, though nuder departmental control, were still subject to the general supervision of the influential residents in each hublit. The difficulty thee, as it is now, was taken to trein them hefore appointment and for this purpose a Normal School was established. The feature of the scheme that calls for notice in this connection is that contains was practically free, and it has continued to he free all along but for a brief interval of rotrogression mbut a decade sgo.

There are two aspects in which this measure may be criticised : first the principle underlying the messure, and secondly the practical working of it. In regard to the first, so far as this particular measure is coocerned, the principle of free elementary education has been recognised almost fifty years ago. Tha expectation of the authors of the measure referred to shove have been quite adequately reslised though it must be stated that there is a great doal yet to be done to carry on the system to the fullest expansion possible. Education is free, according to the eyetem in vogne and capable of indefinite expansion, limited only by the funds at the diamenal of the Education Department under this head. There have latterly been no expansion in the local funda set apart for this purpose, and for years past the Government had to applement this by large grants from the general revenues, so much so that it, was practically becoming a charge on the State revenues. As it was, however, the principal drawback to expansion was not so much in the lack of funds ag in the lack of teachers and educational outhusiasm on the part of the peopla-This latter defect is meant to he remedied by

the application of the principle of completion; So far very good.

The other eide of the question, however, is not quite so simple to auswer, nor does the position taken uppear to be quite satisfactory. So long as education is declared free and compulsory, the State tekes upon itself, under all circumstances, the education of the masses as a first charge upon its revenues. The Regulation we are considering does not place the matter so absolutely; but it follows none the less, once the principle is recognised as the measure actually does. The educational system of the State is already under the Government almost exclusively, This regulation will have the effect of throwing education entirely upon the State, an far at least as elementary education is concorned. There are about 2,177 elementary schools ander public menagement with 80,175 pupils, both hore and girls. The total expenditura on these schools is Rs. 4.03,567 giving an average per pupil of Rs. 5-03. The total population of school-going age, secording to the Report on Publin Instruction for 1911-12 is 317.470. The total cost of education of this population would on this basis be about Its. 40 lakha. This takes us up to the practical aspect of the measure but before going to that we would point out that the messure ie in principle the natural, if somewhat tardy, result of the policy juangurated so long ago as 1867-8, but would seem not quite to realize the whole bearing of the question.

Passing on to the practical aspects of the Regulation, the first point that strikes a reader is that the Regulation can he so worked as to make no departure whatsoever from what obtains already in regard to the working of the Department in respect of this very branch of education. There is enothing in the Regula-

that the acheme would be really productive of all that we are accustomed to associate with the adoption of a measure of compulsory education in European countries. It would be going too far to discuss the scheme in the fulness in which its importance would require it should be, in the space of an editorial. but we do think we have indicated enough to show what the scheme will be in practical working. There are already a few more than 4,000 elementary schools with about a lakh of boys and girls. The Department, as it is, finds it impossible to exercise over those anything like the control that it ought to, for proper, not to say efficient, working. There ara Government Orders conctioning schemes for opening 1,000 schools more in the coerse of the next few years. If this could be done in the only satisfactory way it ought to be, a great deal in the expansion of primary odncation would have been done. The Regulation could well be made uso of in a subsidiary way to belo this echeme of expansion on. So far it would be excellent good work. To do more requires more than meets the eye in the Regulation itself. The first essential would be departmental agency far more active end offlicient than hitherto available: lecal propriantions and generalsympathy and co-operation of the various administrative departments than would appear to be available from all that one is ordinarily able to see ; and lastly more sinews of war, and whot is more than this, the men to carry on the great work that this implies.

• We do hope that oil this in time would be brought into existence and the best hopes of those that wish well of the State wauld be reclised; and nothing would please us more than that proper steps are taken to put the scheme well on the way not morely to meet the immediate needs of the hour, but the ultimate goal of statesmanning which cannot fall short of eupobling the life and improving the material and moral condition of the toiling millions of humanity of whose destinies distinterstead states are the spondred guardians.

The season when Fellows of the Senate are chosen annually is approaching and we desire to urge on all people connect-

ed with the choice the daty of sceing that educationists are not kept not of centrolling education. We held that the University Senate ought to find room for avery Principal of every College and every Professor of every First-grade College, excepting those who are known to be cranks, of perverse views or otherwise objectionable characters. Now of the Second-grade Colleges, n handful are represented in the Senate by their Principals and such large and well-conducted colleges as these in Madure, Tinnevelly, Coimbstore, Palghat, Calient, Salem, to mention only a few, are not represented at all. We think it is scandalons that the Principal of every Secondgrade College has not been able to get into the Secate either by nomination or by election. It is equally had that Professors of Firstgrado Colleges, who are known to be efficient in their duties, who are on the Board of Examiners have yet been unable to find their way in to the Sanate which is the hody that devises the courses of study. We blame the Government and we blame the electors who will not choose the right men but will introduce into the Senate, Collectors and Judges. practising lawyers, professional patriots, printors and merchants (such men as know nothing of the conditions of work in our colleges, whose one ambition is to seek cheap

notoriety by speaking on every subject introduced and who have by their garranty compelled the Senate to pass, in self-defence the ten-minutescule), though educationists of more then a querter of a century of experience offer their services We deliberately abno mentioning names, for we are concerned only with the principle-educationiste first. othere after them, Phn privilege of electing two Feilows a year to the Senate will prove a carse and oot a blessing, if this is to be turned into an eegine for keeping out educationists from the Senate and if the methods of the party politician and the platform crater are thereby to be made to override the interesta of sound education

This aection was presided over by Sir R. C. Temple, Joint-Editor of tha Anthropology Temple, Joint-Editor of the at the British Indian Antiquary His Association opening address concarned itself with the practical aspect of the general anbject of authropology, that aspact which will be of practical value to those engaged in guiding the administration of their own or another country In the course of his address, he admits that "we are still, however. very far from being shie to understand in all their fullness of devalopment even the crudest ol haman communities," a remark which wn wish to commend to the notice of young civiltens who write Census reports and those Christian missionaries that are equally cockenin about the aims and aspirations of the various peoples of India and last, but not least, of those foreign religious toschers whe, in these days, aspire to teach Hinda religion to Hindus, without the least respect for or knewledge of Hunda feelings and Hunda ideals. Sir Richard Temple then passed on to a tabloid account of the British Empire and pointed out hew every language of the world was spoken,

every possible religion, every kind of routine of daily life followed, overy variety of social refation practised, in the British Empire and that this it afforded the widest area of work for the field anthropologist. This complicated empire is governed from the British Ieles, which send every year a body of young men to administer the affairs of its various parte. It is requisite therefore that these young men should be trained in the methods of acquiring "a working knowledge of the habits, customs, and ideas that govers the conduct of those peoples and of the conditions in which they pass their lives," so that their administration might not prove a dispatrona failure. Tact that is horn of "intuitive anthropological knowledge" is necessary for success. This can come only from the embibition of the "anthropological habit" Sir Richard Templa hopea that the Public Sarvices Commission will point out the need for the official training in anthropology of candidates for the consular service and of the Indian and Colonial Ciril services recent years an Oxford school of anthropology has been created, in Cambridge, this year an anthropological Tripos has been instituted. The Landon University has now a Board of Anthropology and is going next year to include suthropology as a branch of tha Science Honours degree But what has the Madras University done for a study of authropolegy, notwithstanding the fact that this Presidency is a complete authropological museum illustrating all stages of culture, from the lowest to the highest? Echo answers what.

Far and away the most humanly interesting Geography at British Association. British Br

phical section by Prof. Dickson. The contiquance of our modern civilization depends upon the unfailing supply of food energy and of mechanical energy and lastly on the lines of transport of crude and finished meterials. With regard to the first factor, notwithstending increased acreage of cultivation, and tha possibility there yet is of still further increasing it in North America and elsewhere, " it is clear that the available proportion of the total ounnly from 'extensive' sources has reached. or almost reached, its maximum, and that we must depend more and more upon intensive farming, with ite greater damands for labour." Mean while present conditions by which certain definite areas set apart for the production of the food-supply of other distant areas are now changing ; in the near future there is the likelihood of such a redistribution of mankind that every region will have "a moderate dense population, more uniformly distributed over large areas, capable of providing the juoressed labour necessary for the higher type of cultivation, and self-supporting in respect of grain-food at least. So much far food-supply."

Now for the next factor. So far the presence of coal has determined the lacetion of manufacturing industries; in England about 800 millions of tons of coal are consumed very year; and at the present rate of increase the whole available supply will be exhausted in about 170 years. In other constries coal may last for some time more, but, "to the hest of our knowledge and belief one of the world's largest groups of coalfields (our own) is not likely to last three centuries in all." Here again conditions are changing. This conversion of energy into electricity not anly utilizes hitherto neigheoted sources like water-falls but affords easy means of conveying

energy in a cheap form to places where crude materials ere found. Thus the overgy of the waterfalls af the Alps trausmitted as electricity is converting North Italy into one of the world's groat industrial regions. In the neer future coal might he burut in situ and turned into electricity; and when the use of electric powar iauniversal, it will affect the distribution of population. A small electric motor is a much more efficient apparatus than the small steamengina. Hence whereas the steam engine in the past concentrated people in factories. electric power will effect a uniform distribution of men ou the surface of the earth and the distinction hetween agricultural and industrial areas will cesse.

Such a radistribution will react on transport. If each region becomes self-contained as before the days of the fectory, the amount of long-distance trensport will diminish. If the raw materials of the tropics, now transported to distant manufacturing coutres and retrausported es manufectured goods, ere used up in their place of origin by menufacturing electricity from waterfalls in that region, haw little cast-and-west transport will there he. But to he able to suswer accurately the numerous questions that will arise in discussing in detail the above general considerations, a complete geographical survey of the whole of the world, much more thorough than the incomplete physical or hiological or aconomic survey of some parts that has been done so far, is necessary. Prof. Dickson pleads for such a survey. One possible means of getting it done will be for every University in the world to develop its own school of Geography (such as exists in Oxford and in Cambridge) in the British Empire and conducting the survey of the region accessible to it.

Another octeworthy featore of this year's A woman Pre. meeting of the British sident. Association was that one of its sections-section K, Butany, was preaided over by Miss Ethel Sargant, She prefaced her address on Vegetable Embryol ogy with these words "There is one more event of the past year to be mentioned before entering on the professional portion of this eddress Section K has made a great innovation to choosing a woman for ats President this year, and I will not refrate from thanking you in the name of my sex because I am the wuman chosen And though I must and do feel vary keeply the hooder you have done ms as a botanist in electrog me to this position, yet that feeling is less promioant than gratitode for the geoercasty shown to all woman to that choice Speaking in their name, I may ventors to say that the highest form of generosity is that which dares to do an act of jostica in the face of costom and prajudice ' The highest form of geogressiv in our country is to talk oo platforms on Gargi and Mastre Fi and L lavati, to deliver eloquent orations on female education to the Legislative Council and to withdraw our daughters from schools before the age of ten lest the accient ideal of Indian womanhood be destroyed !

Mr J M. Robertson, M. P., writes an The English of the Edglish of the Bibla us the Edglish of the Bibla us the carrent number of the Journal of English Studies. It is true that to the Bibla was reached the high wetermark of English Proces skyle, so far as clearness and regour are concread, but all the samest as affects ing to read a great authority say all that he has to say from the opposite standpoint. Mr Robertson begins by demolating the fallery, so frequently attered even by anche

well informed men as Prof Sainfabury and Sie Arthue Quiller Couch that the forty-seven men that clisbureted in producing the English treeslation of the Bible had absolutely no good models of English pross before them to imitate The fect in that "The Bishop's Bible (of 1568 72) of which the anthorized version is avawedly a revision, supplied serbatim four filths if not nine-tenths, of the whole text in the King s translation, and the great Bible, [of 1540,often called Cranmers, really Coverdales revision of his own, with general resort to Tyndale sod Rogers] of which the Bushop's Bible is a revision, sopplied verbaism four bithe, if not mor teothe, of all the Bishop afext." Thus the birth of the author 12ed version was not a "miracle" that soddeoly befell to English prose, as over emotional critics have sometimes asserted Another notsworthy point that Mr Robertson makes is con made loog ago by Selden and repeated by Hallam It is that "the Bible is rather translated anto Luglish words than 10to English phrase The Rehrausma are kept, and the phrose of that language is kept which is well enough so long as scholars have to do with it , but when it comes emong the common people, Lord, what gear du they

have to do with it, but when it comes among the common people, Lord, whist gear on they make of it? Mr. Robertson gives some illestrations of this supposition of Hebrer whomeo Lugitah. We quote a fow, italiciang the phrases be claims to be" not a cairral way of Lugitah apsech. "Bleesed in the man that wealleds not in the coursel of the ungoily, not standed in the way of sinners, nor sittle is the seat of the coursel of the ungoily, or standed in the vary of sinners, nor sittle is the seat of the coursel of the people of the seat of the coursel of the people of the seat of the coursel of the people of the seat of the coursel of the coursel of the people of the seat of the coursel of the people of the seat of the coursel of the seat of the coursel of the seat of the coursel of the people of

Hebrew we cannot verify the statement. But

we know that the Tamil Bible and Telogo

Bible are excellent specimena of what is worst in translation. The words are all Tamil or Telugu, but one can read pages after pages without being while to understand anything, unless one has by the English Bible and reads it at the same time. An eminent Christian missionary ones bitterly complained to us that the common man in the Telugu conntry could not make head or tail of the Telugue Bible; and we bombly added that we too were one of those who attempted to read some pages of the Telugue rentriptures and though we were tolerably acquainted with them in their English garb could not make any headway with the Telugue rendering. The art of trans-

with the Telago rendering. The art of translation requires the possession of the pyrachgefuhl of two different languages; if not he language of a translation will be no better than the Government translation of their lawa and notifications, published in the Gassite.

Teachers of Chemistry have perhaps been

faced by the following Chamical nomenclatora poser from over-intelligenoupils, why do we speak of mercury sulphide and not call it sulphur mercuride, why write HgS, and not SHg. why hydrogen oxide and not oxygen hydride, why again nitrogen chloride and not chlorine nitride, why in ethyl sulphide, ethyl goes before sulphide but in zinc ethyl, it is degraded from the place of honour? Mr. Martin solves this puzzle in the columns of the Chemical News and traces it to mediaval superstition. The alchemists of the middle ages, who were the forerunners of our modern chemists were chiefly concerned with reducing metals into demetallic form and to them, therefore, the metals were noble and nonmetals base. So when a metal and a nonmetal combined, the noble metal was given the place of honour. This ancient custom is kept up in modern chemistry and hence notwithstanding the all-important role oxygen occupies in chemical phenomena, when it combines with a metal, it is robbed of its individuality in the name of the compound and we get oxide of this metal or that metal. In the case of hydrogen or earbon, "the more positive element or radical, which apes the metal in the compound was, presumably from custom," given the first place. Oxygen being the least metal-like or most electro-negative element known has therefore become the cinderella of Chemistry-doing plenty of work and yet getting no name for all that.

In our editorial note last month on " More Inspectors and Inspectors," we said, "it the Vernagalars, will not be too much to institute an examination for them in the vernaculars as it is in the case of Civillans and others." We repret that for want of space we could not have explained our meaning better than by this highly ambiguous remark. which we now proceed to do. We know that Inspectors now do pass an examination of sorts in a vernacular. But we want them to be able, before confirmation, to attain such mastery of the spoken idiom that they can give model lessons, in the vernaculars, in subjects taught through that medium, just as they now do or rather are supposed to do, or at any late, a good Inspector, up to his work, can reasonably he expected to do, in the case of subjects taught through the medium of English. We certainly do not want them to exponnd vernacular poetry; but a lesson in Geography, in Elementary Science-subjects so indifferently, if at all, taught now-in the

Vernacular in a lf Form will be an immense stimulus to the form teacher, much more than general remarks that such and such a teacher is not up-to-date While on this subject we may also point out that we have frequently noticed that when an fuspector of Schools passes his examination in one vernacular, the D P f straight way transfers him to a place where the vernacular is different from what he has learnt. Thus one who knows Telugu well is sent to a Tamil district one who passes in Canarese is sent to a Malayalam district and when he learns Malayalam also he is im mediately sent to a Telugu district. The motives for the transfers are inscrutable, but the knowledge that an Inspector of Schools acquires of a vernacular does not weigh any thing in the minds of the head of the Depart ment.

As announced to our last teams the Govern ment Collage of Commerce The Government College of Com commenced work in the merca Bombay Elphinstona Collega Buld ings, Bombay, on the 22nd of last month. The Bachelor of Commerce Degree was instituted by the University of Bombay early last year, and it was announced in a Press Notant June 1912 that the necessary funds had been scoured forstartinga Government Collegeto prepare candidates for this degree It was annuanced by Government and expected by the public that the College would be started in October this year We are thursfore glad to find that the Government of Bombay have been able to keep their promise and start the College this year in spite of the nanal difficulties and delays inseparable from the organization of a new institution We must congrate late the Government by delbay on the successful frequently attered even by hich

they have been able to arrange for the first year's working of this College

Permanent staff -The course extends over three years, the let year's coorse being confin ed to literary aphyects and elementary profesaional training Advanced Economics and Advanced professional training are reserved for the 2nd and 3rd years of the College conrac The services of the two expert Professora asnetsoned for this College who have to be selected by the Secretary of State from among the graduates in Commerce of British Universities are really required for the 2nd and 3rd year courses , it would have been & waste of money and teaching power to have brought them to Bombay at the very commencement, as for the elementary teaching prescribed for the Intermediate Examination in Commerce, such highly trained and highly qualified British Professora would be wholly nunecessary For purposes of organizing the College on the right lines, the arrival of the permanent Principal from Logland would This difficulty has been have been pasful overcome by entrusting the initial organization work to Mr K Subramani Aigar, the originator of the wholn cohemn lt may also be said to be an advantage to the College that its mitial organization should have been entracted to Mr Subramani Aigar, who has for years been devoting so much attention to this question sustend of to an imported Principal who, however emment an expert he may be, wilt for sometime he lacking in the local knowledge necessary for making it a success.

The Acting Principal .- The College has been



piaced under the management of Mr. K. Sphramani Aiyar sa Actieg Hunorary Principal-He is a Bachelor of Arts and n Licentiate Teaching of the University Madras, and bas been connected

with the organization and teaching of private sed Goveremest commercial schools and colleges for more than quarter of a centory. He is the senior parteer of Messrs. K. S. Aivar & Co., Incorporated Accountants, one of the leading firms of Anditors practising in Bombay. He is elso the Macager of the Bumbay Life Assurance Company, Limited. He is, therefore, not only an educationist of wide repute, but in also a practical business man with a knowledge of the requirements of hosieses men. That he commands a wide practice as an aeditor and that he has been entroated by some of the leading figureiers of Rombay with the management of a Life Assurance Company started by them, go to show that he enjoys the confidence of a good pertion of the mercantile community of Bombsy. He is an Honorary Fellow of the University of Madran and on Ordinary Fellow of the University of Bombay. He is also a Justice of the Peace and an Honorary Presidency Magistrate. His enthesiasm for, and interest in, higher commercial education require an proof as he has been consistently working for the advancement of this branch of education

for so many years. We are glad to note that the Government of Bombay have generanaly acknowledged his services is the casse of commercial education and have confidently entrusted him with the initial organization nf their College of Commerce.

The Provisional Lecturers .- Four provisional lecturers have been appointed by Government for teaching the foor schiects prescribed for the Intermediate Examination is Commerce. Permacont enpointments will be made after the arrival of the permanent Principal from England. This is certainly a wise arrangement as it is necessary to first ascertain the qualifications of the Principal and the assign Professor to be imported from England before selecting the Tedian lecturers. Government must first keew the sebjects in which the two imported Professors are experts, so that Iedisa lecturers may be selected for teaching those anhiects which the imported Professors are not qualified to teach. We give below the names and the academic and professional qualifications of the four provisional Indian lecterers who have now been appointed :--

Mr. N. S. Takakhay, M.A., who has been appointed Lectorer in English has, we find, passed all his University Examinations in the First Class and been awarded the Chanceling's Medal for baying stood first at the M.A. Examination in English and Latin, He has been a Professor of English is two first-grade colleges for some years past, and is said to have made a came for himself as an efficient teacher of that subject. work in this College is confined to the teaching of English for the Intermediate Examination, precisely the kind of work which he has been doing for some years past in the Arts Colleges.

Mr R. M. Joshi, M. A., L. B., who has been appointed Lecture in Political Economy, has passed the V. A. I ramination in History and Economics with Honours, has been a teacher and an Assathati Professor for some years past and its besides on Examinor in Esglish to the University of Bombay.

Mr. Bhaskerrao V. Mehts, M.A., LLB, LERAS, who has been appointed L. cturer in Mercantile Live is a practising Advocate of the High Court of Bombay, and a Director of the Back of Baroda, Limited Hair, therefore, not only a lawyer, but a businessman in the active exercise of his profession

Mr S S, Engineer, BA, PSAA (London), who has been appointed Licturer in Accountancy is a graduate of the University of Bombey and an Incorporated Accountant of London. He served his apprenticeable under Mr Subraman Aivar for three years, went to England and passed the Incorporated Accountants' Framinations, and returned to Bombay about five years ago He has therefore had about eight years' audit experience in Bombay. He is still a practising Auditor The arrangements made for the first year's teaching though called provisional, and though made in a burry, seem to us to be emmently satisfactory We congratulate the Government of Bombay on their having been able to secure, at short notice, the services of such an efficient Principal and a satisfactory staff of legiprers

Admissions .-- We understand that there has been very large rash of applicants for admission and that the C llegs notherities have been obliged for want of room to refuse admission to a large number of eligible applicants. We have not yet ascortuned the exact numbers that have been admission.

but we understand that over a 100 stadents are now attending the lectures. The is further evidence not only of the popularity of the new coorse, but of the confidence of applicants and their grandinas to the qualifications and capacity of the provisional Principal and his staff.

The terms—As prescribed by the University, the first term is from 22nd October to 22nd December, the second is from 1st February to 30th April and the third and final term is from 15th Janes to 15th Agest. Students belonging to the first batch will be sent up for the Intermediate Examination in Commerce to he held by the University of Bombay in the first week of September 1915, and for the Bachelor of Commerce Degree Examination in the first week of September 1916.

Practical training —Though the University does not prescribe any practical coorie, we poderstand that the College authorities will arrange facilities for the practical training of the College students during their vacations. The College has an Advisory Board occasions of a number of prominent merchants and representatives of the chief merchants and arrange for the students arrange for the students arrange for the students are suggested and the contractions of the contractions and inferent mercanitie efficies and under auditors, daring their vacations, especially in the case of the 20d and 2rd var students.

Appreciation by Government —We are glad to reprint below the concluding paragraph of the Press Note issued by the Government of Rombay on the 10th October 1913

"Ha Excellency the Governor in Council in announcing these temporary arrange" ments desires to acknowledge that their

"early introduction: has been rendered "possible only through the energy, seel, and resourcefulness of Mr. K.S. Aiyar, who "has consented, pending the arrival is India of the permanent Principal of the College, to give his services is on honorary eapsity to the College. The Bombay Government are glad that this iostitution, which so largely owns its inception to Mr. Aiyar's "labours in the 'cause of commercial education, should first commence operations "under his 'linion[salship."

We are glad that the University of Madras has recently found-University Professor for Indian ed two chairs, one for History, &c Ecocomies and Indian enother for ludion History and Archwology What the duties of the Professor who is to he appointed for the latter chair are, have 'not been defined with precision; yet from the advertisement by the Registrar inviting applications for this chair we may presume that he is not merely to retail information contained in published works on Modern Indian History each as those of Orme, Mill, and Malleson but that he is to build on the history of sucient and mediaval India especially of Southern India from such materials as epigraphical, numismatic and literary as are abundantly available for that purpose, and to familiaries the students with the methods of historical research and to open op to their minds fields of Indian History which have not yet been adequately treated

in books published by Western anthors. We venture to say that this is the, proper function of a University Professor of Indian History and Archaelegy and that the University had this in its view in founding this chair. If each University will similarly do so for the better elucidation and working up of the history of its respective province, the history of ancient and mediaval India can easily be worked up and the reproach that our greduates have done nothing in the field of historical research will no longer be heard. Confining our attention to our own University Professor of Indian History and Archanglogy, he must be a men well-sequainted with the verneculars of our Presidency and their literature, especially Tamil literature. The materials, epigraphical, etc., for the construction of South Indian History are very abundent and most of them are in Tamil, Tamil literature itself contains a wealth of historical information which throws a flood of light on ancient institutions. manners and customs. The requisite qualifications for a Professor who will do justice to his work, we may affirm, can only he found in an Indian of our Presidency who combined in himself a scholerly knowledge of Tamil and its literature with a first-hand knowledge and practical experience of epigraphical and archie logical research work and we hope the University will be able to find such a

person for this cowly founded chair.

SCHOOL-MANAGEMENT AND THE WORK OF THE STAFF

(Continued from 1 age 22, Vol XIX)

11

IN the January (1913) oumber of the Educational Review was mentioned the manner to which the management and the beadmaster might co-sporate to make ochool work efficient and popular. The reasons for some of the statements made therein even to be necessary to make matters clear and understood in the spirit introduced.

2 In the first place, it most be seen what need there was for eaying that the profes eional representative most he one who finde time and takes interest to the work Some examples may be found in which he was pressed or invited to take his seat in the Board of Management but for all the time approsed to be in it, he was never known to do anything which ever had the object of improving the condition of the schoolmaster, the course of matroction or the relationship of the school to the parents of the youthe undergoing their training in it. The presence of a professional gentlemen has tended to make people disbelieve the atility even in matters in which his experience may be of use to the public. He has probably contributed to worse treatment of teachers and to more frequent changes in the staff. His more intimate knowledge of the poor condition of graduates especially of such as are in the sarber stages of struggle to find poste has only made him advise the lay people to employ them on low pay one after another, so that the trained teachers may not be more highly paid and longer kept et school Without him, the lay gentlemen might have felt some

diffidence in following the course end at least some concern lest the Department should visw Bat his knowledge of the it with disfavour rules has only taught him to point out that a certain proportion of trained teachers is enungh for purposes of recognition and that the Department can by no means withdraw it. The other members of the Managing Committee are then led to say "when an expert helps us so this way out of our difficulty, why should we trouble ourselves?" He whose presence ought to have contributed to devising some plans by which teachers may hn better treated and the school may be manned by as permanent a staff as possible, eo that the children may not suffer by nonstant changes has probably only served to intensity the disaster and embolden others ontside the field of teaching into taking steps whoh, unaided, they might have hesitated to adopt-Thue, the possibility or the chance of an effort the management might have made to improve the financial condition of the achool for maintaioing a staff at least relatively permanent is altogether lost for the time being No professional representative is needed to follow the methods of the London 'Sweater, apecimens of whom may be easily found every where The great difficulty is only to see whether the Department may be moved to give a larger grant, or whather the public may be anccessfully appealed to, to contribute auma for efficiency notwithstanding the pressure in all directions or whether it is possible to craate end afford greater facilities for a fresh class of self sacrificing teachers whose devotion will place the school beyond any anxiety for sustained work of a high order on a much smaller expenditure than is now mourred No such difficulty is ever either faced or even attempted to be faced This is a sorry spectacle by itself; but, matters dn nnt stop bere. The professional representative presents bimself as a specimen of intolerant dugmatism in matters of methods of teaching. He thinks that those be likes are only the best end that the teachers of the school must be forced to follow them whether they are suited to their tastes and capacities or not. But, the less is said of this the better it is for us to avoid mention of unpleasantness in school work. This state of affairs makes the public feel that, if only the managers either literate or illiterate can socceed in secoriog a headmaster who will make the best of the school-fee collections and manage his staff out of that resource without any serious preindice to the fairness of results in public examinations or to the faynorable impression on the mind of the Departmental officer or officers who inspect or visit the school, they have done their duty by it. These remarks do not apply to those who helped in the past or help at present the progress of institutions. To them thanks of the public are due for their self-sacrifice in over-working themselves though their energies ere well-nigh exhausted in doing their own tiresome duties. 3. In the accord place, the serious ques-

tion of the headmaster's position presents itself. On theoretical granude, it is easily acconcided that he ought to be the lord within the school and that the example of public ashools in England onght in indnee every management to imitate the valuable example. But, it must also be seen that they are more theorists who in a treasitional state of things wisk to follow the educational work of institutions settled after many years of experiment and struggle. Fresh experiments are now being made and from hears of pelicy are heing formulated by different people in different people in different properties.

ent places. Matters are unsettled and in a state of confusion. Neither the Department of Pablic Instruction our the various manage. ing boards are quite sure of the ground. In this condition of affairs, the headmaster is made the supervisory authority of the school, It is not difficult to mention a number of instances in which beadmasters are efficient in exercising supervision. But, whether what applies to these abould also be granted to the majority of them who do not seem to know what to do with the spare time at their disposal is a matter io which no definite pronnancement need be made but in which the intelligent observer may form his nwn impressions hased on observations of actual facts. Oca thing may, however, he sasily noted. If, in the case of the professional representative on the Board of Management. some regrattable features were nuticed, no less are the beart-burning characteristics of people engaged to teaching and sopervising whn instead of making allowances for the limitations in actoal work go to the extreme of expecting too much, because they have thamselves forgotten the difficulties of bandliog classes for the whole day with only nominal leisure in the midst of school-work. the greater part of it as shown in the timetable being taken up with work for absent teachers or teachers who have left the school without their places being filled up within a resentable time.

4. What the nature of supervisory work unght to be has been indicated in the January number of 1913. It ought to be obtiefly in the giving of model lessuring uniformity with continuity of work. It is most unfortunate that the nature and the importance of supervision are not quite so commonly understood by the geocetality of headmasters.

whose schools contain the three upper forms of a secondary school Their attention is mainly directed to the production of good results in the public examination of the highest form and to the arrangement of such work to the next two lower forms as will enable them to secure a name there When any defect is noticed in the upper forms, they think it enough to find fault with the lower secondary and primary teachers for not having sent up pupils properly trained. The idea that they have not only to examine the condition of work in the lower departments from the view point of the upper forms hat also to see how they most daily prepare the lower pupils for daly profiting by the sentruction in the higher course is not unite so commonly realised even from a theoretical standpoint as it deserves to he. They think it ecough to get information from the L 1. teachara of the upper forms as to what they are doing or to make them work harder. When the reality is understood, it is not these that require supervision so much as those of the lower departments who should be looked after by the headmaster with due care and regularity Taking the staff of the primary school as it is, its members used belp not only to methods of teaching but also in knowledge of subjects The deficiency in the latter respect has been tried to be rectified in Madras by the lectures on general anhiecta to primary teachers-lectores organised by tha energetic efforts of the Inspector of behools, IV Circle Though this is a decided advance on the position of things as they atood sometime back, a considerably greater improvement is needed in each school by tha headmaster having to make thorough in a higher degree tha knowledge of subjects as required for the particular school by each

headmaster than general lectures to a large number can, to henefit the primary teachers. The headmaster's work in this line to however amail an exicut demands h boor and akill Even leaving this apart, ordinary supervision of the primary school containing anly one division to each of the four standards takes up two hours per day at half an hour for each, if the headmaster takes care to be sore that the knowledge already stored up by the staff without need for fresh instrus tion is imparted to the children in the proper way suited to them Similarly the superviamon of the lower secondary forms at half so hoor for each takes up an hoor and a half, if there should be only one divison in each of the Forms f, ff and III If the headmaster comes into contact with apper accord sry teachers for half an hour each day, the total number of hoors in which ha will have done good work comes up to four If he spends an hoor 12 office work, he does five hours' active work which mught to be enough to please the management, Matters are certainly complicated with more than one division in each of the standards and forms. How few are the managers that appreciate the value of supervision of the kind described ! It must be horne to mind that only one person -the headmaster ought to exercise supervision in the primary and lower accordary departments. Of course, he has to take a great deal of trouble and work a sufficient length of time everyday to acquire and improve the general knowledge required for efficient guidacce to the staffs of the lower departments. This alone can recure the advantages of centralised authority demanded in a school. The amount of general knowledge required is not too high for any graduate-headmaster of ordinary attainments to gaio. Patience and

pains taking are the only essential requisites. of

- 5. In the inspection reports of more than one school may be found the icepecting officer's remark that the headmaster of a secondary school might seems the co-operation of teachers of upper forms in special subjects in the appervision of those in the lower forms. The Inspectors ought not to be misunderstood. Di they speak of 'co-operation '! Yes, co-operation, strictly co-operation. Why? The headmester is the chief person to do the husiness; now and then, by way of help to him, they may also take a little part ; for, if their own work is to be satisfactorily done under existing conditions, they can spare only a very short time in the course of the month. If it is a lamentable feature of school-life that the value of the right kind of aupervision is not appreciated, not less regrettable is it that the significance of work properly directed and espervised is not generally understood. Examples are not Wanting in which it is found that time is, out of all proportion, spent on matters of little or no educative effect. Again, the reader is requested to warn himself that these remarks do not apply to the minority of supervisory headmasters capable of turning out excellent work. All that has to be understood to be the vital and fundamental affair is the teaching in schools is the proper influence of sound supervision on the conduct of work in the whole school-sound supervision in which the headmaster will exert his personal influence with the occasional en-operation , pose, -1 to senior assistants.
 - 6. So far, the misagement and the head-master have come in for a large share of commont. There yet remains to he treated of, the work of the assistant masters; hos, it is natural that much more should be said of managers and headmasters then it assistants because on their control depends the nature.

of their subordiostes. But, the aspect of school work from the teachers' view has its ewn importance. They may serve in different kinds of management-Local Board, Monicipal, Missionery and private indigenous schools. In the Local Board subsole, the assistants have no difficulty. The headmaster has to get on with the President of the District or the Tuloq Board. If they got on well, no interference of soy kind disturbs them. In a Municipal school, the headmaster is responsible to the Chairmac of the Municipality. But neither for the headmaster nor for the essistants is the path quite smooth. If there are factions amongst the conneillors, the staff has to decide which will be more profitable to them. Even if no factions disturb, the councillors expect some sort of respect from the subordinates in schools. But, even then, the difficulties are far less than in Missionary or indigenous schools. The non-Christian teachers of Mission schools cannot be sure of their posts when Christians are available. However, so long as the former are retained in the service they are treated with kindness and respect. Amongst indigenous schools, a small number is managed by teachers who are themselves proprietors. Their individual gains affect the prosperity of their justitutions und the considerate treatment of the staffs. In other private schools managed by committees, the indifference of the latter and any of Terences between them and the headmasters tion as the staffs at a considerable disadvanpeace (Whatever may be the unture of institutions in which temphers serve, one fact must

tiene in which texchers serve, one fact must be romembered as of supreme importance. The parents and the public know nothing of the internal relationship between managers and beadmusters or between beadmasters and assistants. It this country, the tradition of ages has accustomed people to look upon

schoolmasters with confidence without doubt, yet, the notious of utility in an advancing age of complex mordern civilization force men to man're whether teachers are properly paid and treated But, this is a matter of only recent growth. The influence of longestablished tradition is still paramount. If there is one thing more than another which teachers should take into account with conscience and with feelings of pity for the public, it is this element of people's trust that should weigh with them. It is not of any use for ass stants to excuse themselves on the score of some fault either actually found to headmasters and managers or am puted to them They ought to recognise the actual conditions that prevent even well intentioned beadmasters and managers from doing all that they wish to see done by the staffs though they may not ontwardly show signs thereof, lest they should lead to later disappointments which are worse than loss of hops They ought to feel that Managing Committee members of indigenous schools give their time, energy end intelligence without may reward in the shape of money, whatever may be said of them in other ways As a matter of discipling, they ought to feel that, if they only make their represents tions to the official superiors they have done the little that they can but that at the same time, it is their duty to make the hest use of the resources and materials available to So loog as then are employed in any service they ought to adjust themselves to the requirements thereof. No management can be smooth if its subordinates mean to question the authority of their superiors If these think it to he to the interest of the institut one managed by them to consult the staffs and yield to their wishes as fator nossible, it is well and good If they do uf ass stants ought not to fancy that they legitimate grievances against official neads Sometimes, no reasons may be assigned, as these are not desirable in certain conditions These need oot he questinued at all Sometimes, may he noticed weaknesses too plain to be concealed and too serious to be telerated from any standpoint. As an axample, a manager who had spent a good number of years in hringing his institution to the front

by saving money may not easily spend the money needed for the improvement of school work, may much less think of tocreasing the pay of teachers except under unavoidable pressure. It is, of course, creditable to him to consider duly altered conditions and treat the assistants accordingly, if he does not, they must unly think that it is a natural human weakness on his part end that they must by no means, do their own duties less vigorously or willingly, oo that account In the interests of the assistants future pros pects in life, it is but reasonable that they should exercise their patience under different conditions of management and that if they would only attend to the needs of discipline necessary for the various kinds of institutions, they might have their own days of influence and prosperity If, in spite of these, they do not succeed in work and life, theirs will not be the fault. This nonsolation ought to and does support them Their own obedience to disciplinary rules is the desideratum in school life in the interest of the futuse citizenship of the large number of youths committed to their charge However successfully ettempts may be made to concest breach of discipline on their part, the children of echools do somehow or other come to know of them This knowledge has a deterrent effect on the training of pupils. Nobody ever contends that this is at all desirable Particular care must, therefore, he taken that nothing reaches the ears of pupils which tends to lower their respect for teachers and superiors Managers and headmasters unght in beguarded, if they are wise, that they keep confidential, matters which coght not to be known to pupils But, whether they are wise or not, it is not the duty of Leants to do anything calculated to deal of ante to do anything tantought to of time of a schools of they are to he centres imparting instruction in subjects and preparing future oitizens for the performance of civin duties.

C R SRINIVARA RANGACHARY

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A Monthly Record for India.

Vot. XIX

DECEMBER 1012

No to

All Hierary contributions, books for ravium, nearpapers or magazines and in asshange, &c., should be Artible, and communications intended for published Artible, and communications intended for published in the Reditor on later than the 20th of the month. The Reditor collects contributions on all subjects of abucational interest. Stamps should accompany the MS, of the writer within it trained, in our sty necessary with for accidental later.

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SOME NEW IDEALS IN INDIAN EDUCATION.*

Mr. Chairman, gentlemen and young friends: The system of education which our young men are now going through is not altogether a thoroughly wall thought out and organised one as yet. It is still groaning under the hardens of the traditions of the pest, a system which had admirably served its purpose. When the Government of the country had to case the problem, their needs ever approximant to them and education was accordingly

An Address delivered by Mr. K. Seabu Alyar, a.s. t. 7. Headmarker, Municipal High School, Mayararam, at the Anniversary of the National Association, Velipsiayam, Negapatam, on the 6th October 1913.

fashioned to serve the nurnoses of Government to secure to them able and willing servents to execute the mandates of the supreme authority, to serve as excellent judges and lawvers who would help them in the administration of the law, evolve order out of chaos in the Revenue administration, in the Settlement of land disputes and in the gradual subingution of the crimical population of the land. Therefore, the Madras University when it was newly constituted paid most attention to the development of such capacities as would produce Government servants and lawyers expected to he condintors with Gove erament in the administration of the country. We all know how very well that system had worked and had served its purpose. But when once as a result of the settlement of the country into a state of peace and contentment, s generation had sprang no absolutely nuacquainted with the troubled times of a past age and therefore with new ideas and sepiratinns, we are no longer content with baying a peaceful Government, no longer content to seems those maitings which had hitherto been open to our fathers and grandfathers, and aymptoms of the beginnings of a national life are visible. We begin to learn of what is going on around us out of Iodis and many of you here doubtless know of what is going on in the far cast in Japan and what has been

achieved even in those countries which hitherto were regarded emongst the most backward races of the world Your impulses are naturally roosed and as mon who have been profited by lessone of such history as you have lenrned, meagre as it is, you disire that in your turn you also should enrolf ynnraelyes emong the members of what should un course of time become a nationality Looking around, you find that though we have a thorneghly organised Government, e stable Government. a penceful population, happy and contented within, protected by the mighty erm of the British Empire from without (and we shalf always be contont to be theil, you are not really contented Signs of it are already visible and Government koow at We desire neturally that we should develop along several fines of national activities which ere the churacteristics of a nation in modern times. Contanted for several thousands of years to be purely an agricultural race, with a large percentage of oor population leeding more or less e persuite sustance upon the rest, hearding to not usuals. the traditions of a forgotten past, we now begin to sen that in nil that constitutes an organised life of a civil zed nationality in the modorn sense of the term, wa are absolutely backward, far behind, I cannot say, any pther race, far hehind most of the races of the world We desire therefore to acquire some of those capacities not in one generation or two, but in 3 or 4 or 10, when we may expect that we also shall be called human beinge, men with whom even the Bers woold abake bands end whom they would think fit to live in any land as members of a civilised nationality. I believe you have hopes and because I thought you have that, I agreed to apeak to you about it, how your expectations could be realised, not in your

Meny of you life, but at a vory distant future magine that while Jepau hed suddenly sprung np into national consciousness fully armed at of from the earth and capable of shaking tha mightiest nationalities of the world, you think that because Jupan, n emall nationality had been able to do tint, we also so a short time nught to be fully equipped to be entitled to equal ettention The conditions are so natirely different and I cannot ettempt at this stage to tell you in what respects that ere different. Japan had never been a aubjuct race, had never known divisions internally of the kind known in our country. It was one solid nationality elweys Within, one portion of the population may have hose subjected to another, but in ell that concerned Japan sod the Jepenese, they were united in menosity customs and religion What therefore they hed to acquire was only that power end might that comes of solidarity which had not till then existed The elements of solidarity had already sxisted and they had only to develop it and it was therefore so easy We, on the other band, I ave yet to acquire the elements of solidarily within us and therefore you must be much morn patient, be content in do the work of faying the foundation of the atractors the aprising of which we may not live to see Our education has to undergo e thorough modification, if we really deare that to the very far dutant fotore our children and children's children should enjoy that pleasure which we can only dream of In what directions should our edocational system he changed? It is changing already I only want to draw your attention to those parir cular directions in which the cheoges are coming and of which you, of this genera tion, should derive as much probt as possible.

PRINCIPLE EDUCATION.

Dec. 1913.1

The first and foremost direction of this new change is, that before everything else you should grow into a healthy strong vigorous animal. Think of your self as a being to exist, to perform certain functions and that those functions can only be performed by developing your animal powers, muscular powers, physical powers. This is the most crying need of the hour. Animality has been used in a grosser sense, but in the purely physical sense you have to develop it. If ever you du want to see specimens of the most decrepit animals you have only to see au assembly of highly cultored mon of 40 years of age and ahuve. Yes, myself and my predecessors are responsible and hava been responsible and su I am here to confess tuit. We are responsible in the sense we have been called upon to do certain things just in the same fashion you are asked to read certain things, the purport of which you do not understand. We, teachers, are merely wheels, springs and screws of a clock work mechanism which has been set for us and we can only go on turning and grinding and grinding as we are told we should do. Unless and ontil our nation wakes up and comes forward to maintain teachers who would devise for them that system which is best foe them and the nation would insist an getting what thay want, that they shall get their very hest men, physically, morally and intellectually, you have no right to claim that the teachers shall be any better than what they are. What have they done to elevate their position, to improve their status, haw have they been treating their own teachers, what respect do they show to the profession. what prospects do they hold out? Go into the ranks of lawyers, Munsifs, Sub-Judges and Depaty Collectors, count how many wha are now in the higher ranks had begun as teachers. Funding that they had no prospect of an honeat livelihood as teachers, they jumped from one profession to the other. The teaching profession is therefore merely a refege of all who cannot get hetter places elsewhere. When I speak to you clores, it may be necessary for us to discuss how we shall improve the profession, but for the present I shall confine myself to the young men.

The effect of the education of the past is to grind your braics, leave you un time to think of the davelopment of your physical powers. A great many of you rise up in the morning, read from 4 to 6, write up your home excercises from 7 to 10, and again road sway in the evenings and night. No wonder you are asked to work if yan are depended upon by your parents for support in their after-life. Finding the examination approaching the auxiety for passing which the hoy does not understand, the poor auxious mother wakes up the exhausted child, tries to open his ayes, and it is a loving mother that calls him, and as in duty hound, the buy sits near the flickering lamp and sits up with his books, muge up and hefore it is day time be has his hath, comes and works at the exarcises. If the boy is found in the street to play at marhles, he is called and addressed thus, "My hoy, do not waste your time, do not play, come here, what did you read to-day, how many marks did you get" and it is no wouder tha hoy is axhausted. We at 35 or 40 know what exhaustion is, but hoys nuder 20 do not know it. Passing through this grinding mill of hookish education, it is no wonder that more than 500/a of us perish hefore we fulfil at least a quarter of the ext

pectations which our parents had so tertaioed on our behalf In other countries public I fo has this advantage, thu advantage of the guidance of the maters wisdom of men who having passed through the hard strugglen of life had retired into a decent competince and with thundvantage which public esteem and private wealth affords the leaders of the people to the West maintain a high standard of civic virtue They form, as it were, a re servu of sutelligence and capacity have we anch reserves? Our wisest mun drop down before they have provided for thu musgre wanta of their femiles and how many ere sursiving! I shall not describe the condition of those that survive D rectly they are old, they are no use for the gordance of the recu If I were to be given the options as a famous II shi of old was said to have been given do you desire to have the wiscat hoy who could live for 16 years and die or a dull stupid hoy who would live long, and if the deficition of wisdom is to be that of many of our University graduates who with weak health will fight their way through for a first class diploma or for the law and live for a short period of 20 and vanish like a meteor I would not accept the Right's choice I would thernforn say first attend to your animal wants, do not rush through your food because the school bell is alruady heard Sit at your food to advance of your bell and grand it well, assumiste it, get health and strungth first before you would go to compete to be a lat class graduate of a Uerversity, and I would say that oven at the risk of failing in the examination, you should attend to your animal wants, for the vary fundamental necessities of the physiological existence is against the falfilment of your metellectual deures. Sacrifice your murdinate intellectual dasires, give prominence to phy-

suological necessitius An educational system in order to be antisfactory should be such that for boys andur 10 or 12 there should hu absolutely no need to look so to a book so long as the boys aru at home Thu education given should by such as to draw his attention to facts of external oature, attention by bring ing the child into direct contact with ustare and to a fashion that he would never forget what he has learned. There should be no need to know what hu has been told by the teacher-no telling at school It is direct first hand knowledge that he should baruand therefore ne surrety to read at homu At home he may he doing a little drawing, skutching, thiogs which would come spontensone to a child and above that age, for 3 or 4 years, helf or one hoor's study shoold be anongh and beyond that 2 hoors study If we take our school working period to he nearly 5 hours, I do not think that any edunational system can he regarded as sonod which would demand more than ? hours' devotion to sutellectual atodies in the course of the whole day including school or college work You, young mun, you have not the option to decade what you shall read I can only say you have this option, ris, to decide that you read only so much a day and that you do play the reat of the time, notwithstanding the demands of your nofortonate parents, who, is thme auxiety to save you from a failura, woold demand that you should sit by the twilight and go oo laying the foundation of a physical wreck of a latur period Sports in thatvenings do form part of adocation A atroog healthy animal has certainly virtues which we know are altogether absent from the present race and if you do want to daralop augh varioes, you must possess health and vigour. We are speaking of sports and games not merely to fulfil the physiological needs of

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not merely to failt the physiological needs of the body, but for the much more important purpose of developing the faculties incidental to health and vigour,

CHARACTER.

The second advice I would give you is to grow into a manly man. If you do davelop into a healthy strong animal, you will naturafly be expected to be a manly man. That is to say, you chould posses character. Thu fonctions of any nducational system will be fulfilled fthe, provided this fundamental necessity of a national life was thoroughly provided for in the aducational system. Are we now wanting in character, we may ask. I do not propose to analysa wherein the defects of nor eldnra are; I can only tull you what you should become. We have cortain very good elements of character. Wu are very good peaceful citizens, with very quiet going virtues which have become latent in us perhape from our birth, virtues which through long centuries we have acquired as the fendamental pecessity of sulf-existence and selfpreservation in a country torn by internal political dissensions and martial disorders. We have all the virtoes which the Despot of an absolute country like Rossia would like to see developed among his subjects. We bave all the virtues of a subject race, but very little of those virtues of a nationality. What virtues do wa require which washould try to develop among ourselves? Since I said thesa virtues evolve naturally out of a healthy animal, the virtoes that I want to specially draw your attention to, are such as developed from, by and through sports.

Ozanianca.

The first and most important of each virtues from every point of vinw is the virtue of

implicit obedience to the authority constituted above, the Captain of a Football team, or the Vice-Captain of the Badminton ground. Every member of the football association must feel that the Captain has aves to see things which others have not and that his orders, right or wrong, should be instantly obeyed. If you would learn to govern vonraelves in the distant future, as children, learn thu virtues of obedience; we have not fewered obedience in the sense in which it is demanded, absolutely loyal obudience to a chief who has been placed over us for a particular purposu; we have learnt the obedianca of pecessity, not the obedience of purpose. Since many of you are still at school I would recall to your minds thu two famous lines relating to thu historio Balacleya charge where the 600 men rushed at the cannon's mouth at the order of their General.

Theirs was not to reason why Theirs was but to do and din.

Theirs was but to do and din. It is that kind of obadianca that you should develop in every walk of him wherever you are placed. You may be placed abovu a certain number of men, but you may be placed also below certain others. Whatever be the walk of life, no man can perform thu Innetions allotted to him unless he exeries out to the very latter the order of the apperior anthority. Once you accept a place and serve in it, it is not for you to exquire why you are called upon to do a particular thing. but do it to the best of your might. It is became most of us begin to reason on the orders that are given to us that wu fail in discharging our duties. This characteristic can only be developed in youths as pupils as atudents. You may turn the pages of the bistory of any nationality and you will find no nation has ever come to the front wherein

thousands and millions have not rushed to mevitable death at the word of a Commander You should learn the virtue of absolute, implicit obedience to authority You appoint a President or Secretary in an association and you give him certain powers to exercise to his own discretion It is vone duty therefore to bow to his decision, tu obey that authority If, later no, a timu comus when you want to change the anthority, it is in your hands. If you are not estisfied with thu Secretary in thu discharge of his duties. appoint another, but during his term of office. do not fail by any means to act in chedience to his authority. I am giving you the position of Secretary only as an example. It is so in avery walk of life Take any industriel concern, there is a company which appoints a Manager or a Director , he gives an order, he has all the strings of the concern in his hands, there ere many things which in his judgment may not he disulged to any uther member of the Company. There may be many branch firms or agents and as soon sea telegraphio order is received, it is not for the Agent to ask why hu should carry out that order and say "If I delay, I will gain" If he does so, the whole Company may gu to dogs. It is the duty of a subordinate officer in every walk of life to carry out the orders of the superior officer and if you want to learn this, you must learn it at school in your games and aports

CO OPERATION

Having developed the virtua of abedrence, the next thing to learn set of coperate among squals. The virtue of co-operation has been greatly talked about of late, but wherein the real trouble comes has not yet been properly understood. Co operation means subordina-

tion of self. When you want to work and rab shoulders with another, you must put np with all uoris and conditions of men Cooperation requires that you should draw within yourself all those meanalities in you which would prick your neighbour bome people think that others also should think like themselves and that is exactly the situs tun at present Many of ne have none of the vertues of cu operation with the result that few of our covements flourish Learn to compromise and if your friend does not keep page with you, try to start with him and make hie pace at least half as fast again as hefore Giva him encouragement in avery way, do not make it hopeless for him to proceed by your aide Your football, cricket, tenuis, hockey, every one of these eports illustrate forcibly the virtus of cooperation Unless the helf backs would act in nusson, and nuless the goal keeper can pass the hall to one of his own party and he aver on the alert in order to fulfil the functions of his place, unless there is co operation, the opposite party would have a goal every 5 mi nutes Football to intended not merely to develop your muscles, but to forcibly impress un your minds the necessity for co-operation, It may be, a friend of yours has missed a vury fine kick or kicked a wrong half side and has placed the team in an awkward position It is no use finding fault with him He had probably done his beet. You must learn to get on with good, bad and indifferent frienda in life and make comething out of thum You must begin to learn this virtua in the football ground. It is not a mere incident of a gamu, it is a virtue and you this begin to learn the elements of self excritice ın later bin

SALP-SACRIFICE.

To the Indiane as a rece, calf-sacrifice does not require to be taught. It is instinct in you. Your past history, your religion, everything incolcates self-secrifice of a kind. perhaps to an extent noknown to any other race. Every Iodian, Hiodo, Mohammadan or Christian, has one virtue onknown to other races of the world, pover to allow nay ope of his kith and kip to spoil the femily name or prestige. If you have the means, you would never allow any kinaman to heg for food. You have an idea of family prestige, no matter what it is, in the interests of your brothers and yourself. The elements of self-eaorifice are there, only you have to oulerge it. You have to learn sacrifice not merely for the prestige of your family but to learn to do it for the prestige of your nationality. It is this kind of salf-excritice which has to be acquired and can only he acquired by trying to practise it in your early life at school. Later un, it may become difficult, if we become accustomed to the conventions of the world, if, in voor school, you never learn to value something higher than self, to value your acciety or town or national advancement and make a resolve that if ever you are going to profit and improve yourself, it shall be by methods which shall never do harm to a fellow-conntryman, to a town pr your nationality. I am often tempted to enquire how large fortunes are made by some men io bigh positions and in a few individual cases. Many instances there are which would not hear such an examination or analysis, but to you. young men, before you begin to enter into the world, before you form high ambitions,to become a Collector, a Judge or the head

of a Shipping Co., I would first ineist ou one or two things, i.e., you should resolve to die a beggar than live a dishonest scoundrel in high position. Would you spurn the public opioion of your own race? Woold you sell your pearest and dearest countrymen and rise up to high position? You would die cootent to be a heggar. Your speedore had not only preached, but had practised this virtue: begging was not an offence in accient days. It was practiced by men of the highest character whose duty it was never to take thought of the morrow, to address the highest anthorities of the land as regards their doties. Your Rishis earried their life to their hands. entered majestic and pompone durhers and looked kings in the face. A heggar olothed in mere rage told the sovereign that he did wrong. Now, we require beggars of that kind, fortunately not to go and talk to the sovereign, hot to talk to our own people and people in high positious. Many of our own countrymen have to be addresed by beggars aven at the risk of losing their livelihood, to reclaim our people, to develop civia virtues. which is merely the collective name for these three fundamental elemants, viz, implicit nhedience, co-operation and self-eacrifics. If you develop these characteristics, you have developed the civio virtues. Nooe of these would develop satisfactorily without a strong physical animality at the back ground. The young man who has developed these has fulfilled \$thathe pornose of a good educational ayatem,

KNOWLEDGE AND LEARNING.

Now, I come to what has been regarded, by a mistake, as education proper. I mean education in oor schools and colleges. As young men it is not your day to enquire into wby you are asked to do certain things, but to some of you who are in the higher cleases, the privilege is still given of choosing what subject you are to statedy. Therefore I propose to lay before you a few ideas which would guide you in determining in what particular directions you would allow in develop yoursolves.

The education of the past has been summarised in the word, learning Our country was a land of learning and our Universities were seats of learning in the true sense. The requirements of modern life demand that our Universities should cease to be merely centres of learning, but should be cruires of knowladge. Ynn may ask what is the difference The difference is that between " to learn" and "to know" Our Vakil friends are aconstomed to witnesses who say, "I know this' hat when cross examined these same witnesses would say, 'I meant when I first said 'I know', I learnt it from en and an " That illustrates the difference between learning and knowledge Our Universities should become centros of knnwledge and not centres of learning Learning had its nwo place, but the time has come when mere learning has ceased to he of value and knowledge is the supreme requisite of the hone. It is not your fault that opportunities for knowledge are few at schools We ere just making a beginning, just beginning to try to give knowledge, I want you to avail yourselves to the fullest of such opportunities as your schools afford to obtain direct first-hand knowledge of facts and things Learning is acquired through your storing up to the brain a concatenation of words, but knowledge is that which you discover yourself, of which you are certain and if snybody says that what you know is wrong, you would have a tendency to give a good hit on his head and it is this kind of knowledge

that is wanted. (The lecturer bere narrated his awa experience with a science graduate of 45 who maintained that the colipse may be due to the intervention of the spake) We want anwadays young men who would learn to do things. There is no use students going up for employment after mere general education as it is nr a training to shorthand and typewriting You should lears to do things with your head, to refashion some objects. The time has come when the school should devote at least balf the time for knowledge and half the rest of the time for the nld-fashioned and time-horoured method of feeding the brain through the car and the rest to menual training Learn in do things and for this purpose there are faw opportunities now provided But wherever such opportunities are provided, take the fullest advantage of it. In a commercial town like this (Negapatam) there are spleaded apenings for young men to learn to do things if they would give up their timehonnored prestige of eccuring a billet in the Coverament offices Accept a job as firemen to the Railway Whrkshops where they pay decent sums for unskilled labour Start with high ambitious, learn one bit after snother, in the carpenter's or smith's shop, and, in a couple of years you will find you will be able to do things yourself and you will be in a position to make very fine chairs such as are nukunwa in the domestic circles of Negapatam We are paying 5 times over for firmay chairs amported into the country and if they could be made by workmen here, it will more than pay their wages. It is for you to develop higher ideals and for this purpose you must voluntarily, cheerfully, bear the burden of physical labour toward the sequisition of skill in the finer grades of

workmanship in every kind of industrial life. No commerce can flourish nuless you have skilled workmen and such men we want from those who have been at schools and colleges, not merely men who know how to read and write, but those who know to de things, who dare to do things and depend upon their mental and physical powers and who do not seek the recommendations of distant relatives who have high connections to recommend them for places. In your educational system, wherever opportunites are provided for direct first hand knowledge, make use of it and try to enter other walks of life of unskilled labour. The bistory of the advance of commerce in Europe, the history of the inventions of the 19th century, is one continual history of inventions and dealgus, made, not merely by research scholars in the University libraries, but by workmen who rose from factory hands to heads of factories. Do not continue to place a low value on mechanical training, obtain direct first hand acquaintance, use your hand and the eye and train your brain. I will not disclose what the result will be if our country can only heast of even a few youngmen brought up under such a system, who would go about establishing small iednstries, small workshops, here and there. The time may come in 2 or 3 generations when we need not continue to curse ourselves as being purely an agricultural race. CONCLESION.

I have tried to indicate the directions in which I want your ideas and thoughts to diverge from its accustomed channels. May God grant to all our youngmen health and strength to grow into strong and vigorous citizens who, fully conscious of the history of the past, would do something so as to say to themselves that they have also contributed XXI to the building of a distant nationality. (Lond Applance.)

LIGHT: A DETAILED SYLLABUS. BECTILINEAR PROPAGATION.

LIGHT a form of radiation, Scientific hypothesis never proved or disproved, hat amplified or rejected. Ether exists only in the imagination of the physicist. Opaque and transparent modis. Translacent belief, Gold and ailver in thin leaves. Ray, pencil, divergent, convergent, parallel, To show that light travels in straight lines. [Exp. 1, Sinclair]; Invested images produced by a princhest (Exp. 4, Sinclair); Explanation. Can atmostion of a pin-hole-camera. The effect of changing the chap of the hole) increasing the teice of the hole; increasing the teice of the hole; missing asceral bales. Uniform illumination. Intensity of illumination.

Shadows:—(a) when the source of light is a mathematical point, (b) when it is of definite dimensions, (c) when it is of definite dimensions, (c) when the luminons body is smaller or larger than the opeque body. Umbrs, Pennshra. Eclipses of the sun and the moon; annular celipse of the sun and the moon; annular celipse of the sun and the moon; annular celipse of the sun illustrated experimentally. Formation of shadows, (Experimental determination of the sun's dismetre (Gregory and Hadley, pages 230-40). Determination of the sire and shape of a shadow by graphical construction.

PROBLEMS.

What are the chief differences between a shadow and an image?—How would you mark out a straight lies on a lawn without naing a line?—Hold your pon between a sheet of perper and the window, the pen being close to the paper. More the pen away from the paper What happens to the shadow ! Why!-A penny is held (1) edgeways between a small flame and a screen What is seen on the screen? Would there he any difference if the flame were large !-- Three exodles ere placed quite close together in a row at the centro of a room, and a wooden rod is held in e vertical position at a distance of about e feet from the candles Explate giving dia grams, why it is that as the rod is moved in a circle round the candles, the shadow cast on the walls is in some positions sharp and in others very ill defined -If the sun's rays make an angle of 45° with the herizoetal plane. how long is the shedow east on level ground by a vertical pole 50ft high?-A vertical rod 10ft in he ght easts a shadow 12ft long on a level eide walk How tall is it tree whose shade w et the same time is 72 ft in length?-How could one find the height of a hailding by employing the method suggested by the provices exercise?-- How would you use a pin-hole comers to find the height of a tree ?

PHOTOMETRY

The law of inverse squares kaperimental verification of thalaw (Exp. 1, Woolcombs : Exp 2 Glazebrook) Laplace why in this experiment the calculated results dn not agree with the experimental ones. Scala drawing to illustrate the truth of the law The law of juverse equarea established by means of Romford's shadow photometer, Bunsen's Grease spot photometer and Jolly's Paraffin wax photometer (Exp 6, 7, 8, Suclair, Gregory and Summons, sec 38 , Watson, Lx 99) See Chute's Laboratory Manual for particulars of construction of Jolly's photometer Illom osting power, standard of illumication, Measurement of candla power of a lamp by means of each of these photometers, in partscular, the shadow photometer Explain why the results da not agree

PROBLEMS.

A standard candle is 210 cm from e 19 candle power electric lamp Where should screen be placed between them 10 order that ita two aidea may be illuminated rqually? Where else, along the line moing the | ghis, might the screen be placed and yet be illuminated equally by each source of 1 gbt ?-How would you arrange so experiment to determine the percentage of light that is tracemetted through a neutral t ated glass plate ?-Two lamps are placed on opposite sides of a screen, and their distances from the screen so adjusted that the two faces are illumicated equally A semi transparent cheet to then placed between one of the lamps and the screen, and it is found that the other lamp must be moved to twice its original distance from the screen in order that the two faces may be illuminated equally again What frection of the light falling upon it is out off by the sheet ?- If the sun were at the distance of the moon from the earth instead of at its present distance, how much stronger would suchighthe than at present? The moon is 240,000 miles and the sun 92 000,000 miles from the earth

REPLECTION FROM A PLANE SURFACE

Refloution and refraction; regular and strengolar reflection, consequences of reflection, why as sheet of paper or pawdered glass appears white, disfused light, twil ght. Laws of reflection of light. Post section of centre from (Exp. 9, Sinclair, Watson, Exp. 100, 101, Gregory and Simmons, Pari 11, sec. 39, Crew and Tatanl, Ex. 55) Legality of distances of image sod object from a plane reflecting surface proved geometrically. To determine the

angle through which the reflected ray turns -A rey strikee a mirror obliquely and the mirror is turned so that the new reflected ray te at right angles to the former reflected ray Find the angle through which the mirror has been turned

MULTIPLE IMAGES

*To find the number and position of images formed by two inclined mirrors (Exp 13, Sinclair, Exp 105, Watson, Gregory and Simmons eec 40c) The Kaleidoccope Images in parallel mirrors (Exp 14, Sinclair, Exp 106, Watson Gregory and Smmons see 4051

PROBLEMA.

Place the two binged mirrors at an angle of 120°, and see if the rule for the number of images, as found by the experiment, is true for angles greater than 90° Try with other angles up to 180°. What happens when the angle in greater than 180°?-What is the angle between two inclined mirrors when a ray, reaching the first mirror in a direction parallel to the second mirror, after two reflections is parallel to the first mirror ?-Draw two mirrors inclined at 30° Draw a ray striking one mirror in a direction parallel to the second mirror, and find if after several reflections the reflected ray becomes parallel to either of the mirrors -Two mirrors are blaced et right angles A ray of I ght etrikes one of the mirrors at any angle, is reflected to the second m rror, and again reflected Prove hy drawing and by geometry that the ray after this eccoud reflection is parallel to its original direction -Two mirrors are inclined at 450 A ray atrikes one at an angle of 2210 Find by drawing and genmetry the direction of the ray after four reflections -A glass dame is enclosed in a lamp which consists of

four vertical square cheets of glass to the shape of a hox How many primary and how many secondary unages will be formed ?-Two mirrors ere inclued at 90° A ray strikes one of the mirrore at an angle of 45° What is the direction of the ray efter two reflections? REFLECTION FROM CURVED SUBFACES

Spherical mirrors -Concave or convexcentre of curvature, centre of mirror, princ pal axie principal focus and focal length and virtual foot Path taken by rays (1) passing through the centre (2) Rays parallel to the principle exis (3) Rays passing through the principal focus. D stances how measured, positive and negative

Concare mirror -The appearance, position and size of the image of the object placed st different distances in front of a concave mirror (Exp 18, Sinclair, Gregory and Simmone, sec 41 (e) (s), Watson, Exercise 107). To find a relation between the distances of un object and the distance of its image from a concare murror (Lxp 22, Sinclair, Gregory and Summane Sec 41d) Conjugate foot (Gregory and Smmone, sec 41h) To find the radius of curvature of a concare surror (Exp 20, Suchair first, second and third methods; Exercise 1, Exp 22, Sinclair; Spherometer method, Exp 21, Sinclair) To find by drawing, the nature and position of the image in a concave mirror (Exp 23, Sinclair) To find e relation between the aise of an abject and of its image in a concava mirror (Exp 26, Staclett; Gregory and S mmnue, sec 41f) Verify by drawing to scale Reflection from a large reflecting surface. Cow's foot in the milk The convex mirror

To find the radius of curvature of a convex

marror (Exp 24, Sinclair, let and 2nd methods, Exp. 187 Gregory and Hadley, Gregory and Simmons, soc 42b) To find the usture and position in the image in a convex mirror (Exp 25, Sinclair) To find by drawing the relation heliween the age of an object and its image is a convex mirror (Exp 28, Sinclair) Comparison and contrast of images seen in a place mirror, a cnavex mirror and a concave mirror Numerical problems

PROBLEMS

Draw graphs of the corresponding values of U and V and of 1/U and 1/V Fied from the general formula for mirrors where the mage to a place mirror chould be -A mirror is edvered on the front and so caenot be tooched with the flogers. How would you find not whether the mirror is plane, concave or ocovex ?-In a coocave spherical mirror, where most the object he placed ec that image will be sitoated half way between the centre of correture and the principal focus !-- Why does the nose appear relative ly large to comparison with the ears when the face is viewed in a coevex mirror ?-Can a convex mirror ever form an inverted image? Give reasons for your shawer

REFRACTION OF LIGHT REFRACTION AT PLANS SUBFACES

Refraction at une place surface General idea of devatione experienced by a ray of light (Gregory and Simmons, sec. 43). To study the laws of refraction at a plane surface and to find the index of refraction (Sinelari, Exp. 30, Gregory and Simmons see 44; Watson, Ex 109) Grew and Tettanii, Exercise S0 (Geometrical construction for refraction at a plane surface. To find the eject of plating a slab of plane surface is the path of a ray of light (Sinelaria) and surface is the path of a ray of light (Sinelaria).

31, Sinclair, Gregory and Summons, see 45c. Watsorf, Ex. 110, Crew and Tatuall, Ex. 88 and hence to find the undex of refraction of glass. Observe that the amount of shifting wares with the angle of incidence and the thickness of the siah. Grametrical constroction for refraction at two plane surfaces.

To find the under of refraction of a liquid (Gregory and Summons 45s, Exp 32, Suclair, Lights 177, 180, Gregory and Haddey) Refractice under of plass, by locating the smage due to refraction at a plans surface (Gregory and Hadley, Er 181, Gregory and Simmons, see 43b) Broken appearance of ruler, apparrant position of stars.

Refraction through a prism -The angle of the priem, base, apex, edge, light always refracted towards the thick part Image of an object viewed through a prism always shifted towards the edge. That portion of the mage towards the edge is tipted violet while the portion towards the base is tinted rad Reserve explanation Pen method of tracing deviation by a prism (Exp 33, Stoclar, Gregory and Simmuns, seo 46a: Watson, Lucroise 111, Crew and Tatnall, Exercise 89a) Note that the path of the ray within the prism is not necessarily parallel to the base and the deviation varies with the augle of incidence Repeat experiments with prisms of different angles, different kinds of glass and establish that the deviation depends anou the refract ug angle ; material ; angle of secidence, nature of the incident light, Minimum deviation, angle of incidence equal to angle emergence To and the path of menimum dereation through a presm (Exp. 34, Sinclair, Gregory and Simmons, sec 46b) * Calculatino from data obtained of the refractive index of the prism. Graphical coes struction for solution of problems on prisms, (Critical angle determination of the critical angle for glass total internal reflection, mirage geometrical construction for critical angle Sincleir, Expis 35 36,37, Gregory and Hadley pp 262 263 Prismatic compass Luxfer Prins glass)

MODULA

Explain with the eid of a diagram, how a fish seco the smage of a tree on the bank of a river -- Why is a metallio mirror or a glass elah with darkened hick hetter than a glasa mirror with silvered back, for experiments in reflection !-- How do you account for the quivering mulion not sed shove an ordinary flame ?- Explain the twinkling of the stars -Find the effect of placing two slahs of glass in the path of a ray of | ght -Find the effect of placing different media in the path of a ray of light -Why do clouds appear black !-Why is the deep sea almost black !-- Huld a lighted candle in front of a thick sheet of glass and note the images produced when viewed obliquely Make a drawing to account for their formation -- Explain why e mistore of two transparent liquida is sometimes opaque Why is a piece of writing paper white, and how can it he made transparent -A glass rod is immersed in a beaker of Canada halsam How do you account for the fact that at is invisible?-A person looking at a fish awareming in a tank at an aquaridm, is surprised to see two Explain this with the aid of a drawing,-A glass tumber is half filled with water, and wrapped with tissue paper so as to leave a narrow gap between the ands of the paper. When the slit is placed before a burning lamp in a darkened room, two images are seen on the other side. Why !- A hright band is placed at the hottom of a hasin of water and a person stands in such a posit nn

that he can just erest over the adge of the basin While he is looking, the water is drawn uff How will this affect his view ?-A thick layer of a transparent hand floats on the surface of water Trace the convee of a ray of light from an object immerced in the water through the firsting liquid to the nir -The minimum deviation produced by a hollow prism filled with a certain liquid is 30° If the refracting angle of the prism is 60°, what is the index of refraction of the liquid?-Drew normals to the surfaces of a priem at the point of speedence and emergence and find the 10 Tox of rafraction of the meident and the emergent ray Is there any relation hetween the enswere !-- Find the connection between the angle of refraction et one surface of the prism and the angle of the prism when there is minimum deviation -- Laproises 19, 20, 3f, 32, Gragory and Hadley, Chapter XX

REPRECTION AT SPRESICAL SUSPACES

Convex and concave lenses Converging leas Principal fucue, Principal axis, optio centre, focal length Images, real, virtual. Sumple means of distinguishing between converging and diverging lenses. The contest lens -To find the position and size of the smags formed by a convex lens (Lxp 39, Sinclair . Crew and Tatnall, Ex 92 a, b, c, Watson, Exercisea 118, 119) Comparison with results obtained with a concave spherical mirror Direction taken by rays passing through the centre of the lens, parallel to the principal axis, and proceeding from the principal focus. Rule of signs, Construetion of diagrams effording information as to position, nature, and size of the image. Burning glasa; Photographic camera and object glass of telescope; Focometers; magio lantern, object glass of microscope; light house lenees; magnifying glass, eyepiece of telescope and mioroscope. Examination of each of these instruments. Ilinstrative diagrams. Relationship between the focul length, and the position of the object and the image satablished. (Crew and Tatuall, Ex. 92d; Sinclair, Exp. 41, second method.) Conjugate foci. To find the focal length of a convex lene. First method (Exp. 41, Sinclair : Wateon, Ex. 117) Second method. (Exp. 41, Sinclair; Gregory and Simmons, Sec. 48a; Crew and Tatnall, Ex. 92e.) Third method (Ex. 41, Sinclair; Gregory and Simmons, Sec. 48 b; Watson Ex. 121.) Fourth method. "If a telescope is accurately focussed on some clearly marked chiect, as the side of a house a mile or more distant, it may be said to be adjusted to viaw parallel raya of light, sioce raya coming to the eye from a point that is far distant are sensibly parallal. If rays diverge from the focus of a convarging leas, and pass through the leng, they issue parallel. Hence a telescope adjusted to parallel rays is adapted to viow light that comes through it through a convex lens if it emanates from the focus of that lens. These considerations sourcest the following :- Focus the telescope on some distant object. Now place the lens in front of the telescope, and look through tha telescope and lens at a printed card fastened to a vertical screen. Find by trial a position for the screen at which the words are most clearly seen. Measure the distance of this acreen from the lens. This will be the focal distance sought. Obtain the mean of several trials and compare with that obtained by other methods."

To find the magnification produced by a convex lens. (Exp. 42, Sinclair; Watson, Ex. 120; Gregory and Simmons, Sec. 49c.)

To find, by drawing, the position and size of the image formed by a convex lens. Astronomical telescope. (Exp. 48, Sinclair ; Watson, Er, 123; Gregory and Simmons, sec. 50; Crew and Tatnall, Ex. 93) Compound Microscope (Ex. 47 Sinclair.) The concave lens t-To find the position and size of the image formed by a concave lens (Exp. 40, Sinclair; Watson, Er. 122.) Compare results with those phisined in the case of a convex mirror. To find the focal length of a concave lens. (Exp. 44, Sinclair, first and second methods, also exercise on same ; Gregory and Simmons, sec. 51.) To find by drawing the position and size of the image formed by a concavo lenz. Galilean telescope (Exp. 49, Sinclair ; Wataon, Ex. 123.) Field and opera glasses, Power of a lone. Dioptre; positive and nega-

tire: contrast with signs of focal lengths.
Tha eye, Solerotio membrane, Cornes, Crystalline lens. Aqueous humour, Vitreous humour, Iris, papil, retins, optic nerve.
To prove that images formed on the retina are inverted (Erp. 21, Glaszbrock.)
To illustrate the process of accommodation in the eye. (Glasa hrook, Erp. 23.) Short sight or Mycpia. Use of conoave legan to create the retina transfer of Mycpia. Use of conoave legan to create the contract of the conoave legan to create the conoave legan to conoave legan to create the conoave legan to conoave legan to create the conoave legan to conoave legan to create the conoave legan to conoave legan to create the conoave legan to conoa

secting shart sight. Long sight or Hyper-

motropia, nee of convex lenses in correcting

long sight. Problems of a numerical nature.

Loss of accommodative power. Near point and far point,

"Delermination of near point and far point (Exp. 193, Gregory and Hadley). The Visual angle. "Magnifying power of a lens or a telescope (Millikan and Gale, Exp. 47. Chute problem 80. Crew and Tatnall, Ex. 93.)

PROSLEMS.

Problems of a numerical nature on lenses generally. Draw a graph of the correspondtog values of U and V also a graph of the corresponding values of 1/U and 1/V .- If one half of a convex lens he covered with an opsque card, what will he the effect upon the real images produced by it? Test your answer by experiment - A photographer finds that the deared mage of a building more than covers the area of the plate to be used. How can the size of the image he reduced to fit the plate ?- The picture projected no a screeo by n projecting lantern is found to be too large, which way must the instrument be moved in order to reduce its size?-Why is it necessary to focus a telescope ar a microscopa opon the object to be viewed ?-The image on the retine of a book hald a foot from the sya is larger then that of a house on the opposite side of the street Why do you not judge that the book is actually larger than the hoose ?- Explain why a terrestrial talescope shows objects orectrather than inverted -Compare by geometrical construction, the focal lengths of two convex leoses of the same radios of curvature, soe being of glass, the other of diamond -- If a simple namera should be made out of a hor and a double convex lens of 12 suchea focal length, (a) how deep most the hax be se order to give an image of the sun, (b) what should be its depth to order to give an image of a small object which is 10 ft distant from the froot of the camera ? (c) if the centre of the image of a flat object is in good focus, how most the distance from lens to rear of hox be changed in order to focus the edgea of the image ?-In what respect does Galileo's telescope prove more useful than the terrestrial telescope? Give reasons for your answer

DISPERSION OF LIGHT

To show that white light can be decomposed (Exp 51, 52 Sinclair, Gregory and Simonas, sec 52a, Watson, Er. 112.) Desarrhe the coloured band, a rectangle recorded
off at the ends due to the overlapping of a
number of circular images of different colours
Image of a sit as secu through a primit
(Watson Er. 113) Describe the appearance
of the sits, Prphan by meens of a diagram
why the sit appears to he insted violet towards the edge of the primit Incress of
dispersive action (Gregory and Simonos,
sec 52.5) Spectrum, spectroscope
R composition of white light from its

constituents (Gregory and Simmons, sec 520 Sinclair, Exp 53) Newton's colour disc. (Cf Cinematograph) continuous and bright line spectra spectra of glowing solids, fish tail burner, caudle light, white hot orunilla Contrast with the apartra obtained with Chloridas of Sodium, Lithiam, Thellium (Gregory and Simmons, sec 541* Effects of the absorption of light Selective absorption with refereuce to dark lines to the colar spectrum (Watson, Er 114, 115, 116, Gregory and Simmons, Sec 56 Crew and Istnall, Ex 94)* Rain. hows Colour of transparent bodies Absorption and tracemission of rays by Oxford blue solution, Carbon disalphide Potassiam Permanganate, Potass um Bichromate, Colour of apaque bodies, absorption and reflection of rays Selective absorption and tracsmis sion Mixtures of pigments.

PEOELENS

A white cross on a sheet of black paper is examined through a magnifying glass. Explain why the image as coloured at its ende, and describe the nature and position of the colours.—What kind of a spectrum would you expect to obtain by dispersing the I ght fram a hive coal by a pram? If you look at a broad sheet of white paper through a prism. it will appear red at one edge and blue at the other bot white in the middle. Explain why the middle appears nucoloured .- Some glass honses in which ferns are grown are constructed of green glass. Describe the appearance to an observer in such a house of a lady in a red costume carrying a book with a bright blue colony. Give reasons for your answer .-- Why does a field poppy appear red? What experiment could you arrange to make it appear black !- Bright snolight falls obliquely upon the surface of the water contained in a white chinn basin; a penny is held near the anrists of the water and in such a position that its abadow falls upon the bottom of the basin. Parts of the shadow are found to be adged with colone. What colours may be observed? On what part of the shadow is each to he seen ? How do you account for the colours !- It is sometimes said that "red glass colonrs the sonlight red," and that "hlue glass colours the sonlight blue." Mention facte or axperiments which show that this is not accurate. Put the statement io a more accurate form-A rod painted half bine and half rad to viewed through a prism placed with its edge parallel to it. Describe the appearance presented by the rod and give any explanation that may he necessary.

List of Practical Execuses,-(Quentitative),

- Inverted images produced by a pinhole.
 - 2. Formstion of shadows,
- 3. Measurement of the candle power of a lens.

 1smp.

 4. Pin method of verification of the lawa lens.
- 4. Pin method of verification of the laws of reflection.
- 5. Determination of the position and size of so image in a plane mirror.

- *6. Measurement of the angle of a prism.

 *7. Determination of the number and position of images formed by two inclined mirrors.
- To find a relation between the distances oes of an object and the distance of its image from a concave mirror.
- 9. To find the radius of curvators of a concave mirror (any three methods).

 10. To find the radius of ourvature of a
- convex mirror (two methods),

 11. To study the Iswa of refraction at a
- plane surface.
- glass across the path of a ray of light,
 13. To find the index of refrection of a
- To find the index of refrection of, a liquid (two methods).
- 14. To find the index of refraction of glass (two methods).

 15. Pin method of tracing deviation by a
 - prism.
 - 16. To find the path of minimum deviation through a prism.
 *17. Determination of the critical angle
 - for glazs.

 18. To find the position and size of the .
 - image formed by a convex lens.

 19. Relationship between the focal length.
 - and the positions of the object and the image
 - To find the focal length of a convex lens (three methods.)
 To find the magoification produced
 - by a convex lens.
 - 22. To find the focal length of a concave lens.
 - *23. To find the magnifying power of a
 - 24. To fit up an astronomical telescope.
 - *26. To find up a terrestrial telescope.

On the enpposition that 60 periods of 60 minutes each are available for the study of light about 18 double periode may be devoted to practical work, 12 periods to demonstration and discussion of results, and 12 to questions and the marks register Special attention should be paid to nestness and accuracy of diagrame and to the determination of the position of virtual images by the pin and parallax methods Only such portions of the subject as are well within the gracp of the average High School boy have been included Portions marked with an aster ak may be reserved for quicker pupils. A qualitative stady of the dispersion of light is recommand ad

K S PARABRABHAN

CHEMISTRY AND THE INTER-MEDIATE COURSE

BY A LECTURER IN CHEMISTRY

T has often been deplored that, instead of introducing Elsmentary ideas in Chemistry to onlive te rational experimentation, the Elementary and Intermediate text books in Chem istry contain mere emperical and apperficial facts The Elementary text books written for the same class in Arithmetic or Algebra contain the principles and the students acquire ebility to reason out in those subjects

The present day text books must strive at the idea of treating the subject in such a way as to enable the student to reflect on the available data. By this method of treatment the thinking faculty of the student is increas ed by his own individual efforts Knowledge obtained by one's own individual efforts is more valuable than that gained by memorizing certain facts in Chemistry, provided the former ta directed along rational lines.

In the Intermediate class (Gr 1), students, who have studied (1) Algebra, Geometry and Physics (2) Algebra, Geometry and Trigonometry, (3) Algebra, Geometry and Vernacular and sometimes (4) History and Vernacular with high merks in Elementary Science in their School Final Course are admitted In a class of more than 100, it is often d fficult to find more than ten students who have studed Chemistry in their School Final Course Chemistry taught to them as one of the aubjects in Elementary Science varies in quality and quantity-more or less memories tion of the preparation and properties of some elements So that a lecturer in Chemistry has to begin his course of lectures to a class of students who have no proper grounding in Elamentary Science It is merely a shear waste of time to introduce abstract ideas without a previous survey of general knowledge in Chemistry from which generalization can be drawn It is the scientific method that must be sostilled in the minds of the stadents and they derive more benefit from it than from mere facts By this method the student gets accustomed to reasoning which is of mestimable value in education The historical method of treatment is excellent masmuch as generalizations have been developed from a contemplation of fecte If such a method is followed although the facte in Chemistry are nearly forgotten in after I fe, the scientific method is retained as a permanent att tude of the mind which is a source of "success in husiness or in the profession and often even the mere making of a livelihood " Students are apt to lean upon the authority

of atatements and opinions in the text-books even when they are actually experimenting Any deviation from the code often pazzles them so much that they make the experiments more a mechanical process, instead of interpreting the results and extracting all that they can teach. Experiments should be followed by accurate observations; and experiments and observations alone do not develop scicetific faculty. They should be coupled with rationalization but imperfect observations laad to incheate rationalization. It is is the laboratory that a student learne the habit of "self reliance, resource and initiation," An elementary stodeut of Chemistry must memorize certain facts: but to discriminate the relevant from the irrelevant rests with the lecturer. The thinking faculties in a student must be created from the very beginning and wherever possible the scientific theories must be introduced. It is a mistake to think that the scientific theories must not be introduced In an elementary course and it is wrong to introduce abstract ideas and theories without proper grounding. Some lacturers seems to treat the systematic Chemistry and Physical Chemistry strictly apart. The result is that justed of rationalizing the descriptive and practical work on the new and modern lines the students find it a burthee and derive no henefit from it.

"The intellect is perfected not by knowledge but by oxscrise." The brain must be
trained to think clearly and logically, and the
hands to do their work skilfully and accurately.
The lecturer has the grave responsibility of
acipping his student with these essentials.
It is only the lecturer who can find out the
"desiderstum of his students and can give
them suitable exercises to train them is the
new way. Chemistry is a progressive access
and there is no virtue is closely following a
certain book or the notes of a particular
lecturer. Let not a lecturer be terribly efraid
of, what he may call 'innovations' the pure

advancement in the treatment of the ambjecttheoretical and practical.

The practical work must be correlated with the lecture. Although much is esid on this principle, the speakers themselves do not seem to follow this principle. If the laboratory work is conducted by different people with so instruction from the lacturer, the wurk of the lecturer to 'equip his studente' is much hampered instead of being reinforced.

"CHANGE OF STYLE IN VERNA-CULARS,"

PART I.

1. Nature of the problem. The prublem of this paper is directly suggested in these words of Profe Henry Sweet. He says: "The distinction between the literery and colloquial form of the same language has considerably complicated the problem of learning languages. . . In many oriental languages the divergence is en greet that the colloquiel is no longar a mera variation of the literary form, but the two prectically constitute distinct mutually unintelligible lengueges." Au Auglo-Indien erlected Tamil for examination in the compulsory veruscular test. இருக்கிறது இப்பொழுது end others of the seme type were some of the words tought in the course of his first lessun. The first is said to signify the English word is and the second sow. He could not onderhead the geeius of the lenguege which requires innemerable sounds to signify the sense of the energie English sound is'. He thought that he will be fer from getting the required quelification if be continued this any longer and tried his lack with e North-Indian language with hetter success, 'You ell know that the feult is not su mech in the nature of the language se in the form of the language prasented to bim. For in ordinary conversation simpler words than these in the way of contractions of the same, or correptions se the learedd call, are eased to

A paper read by Mr. K. Venkata Row. M.A. et e meeting of the Teachers' Association, Teachers' College, Saldapet.

signify the ideas 'iz' and 'now'. The difficulty leas in the divergence between the language of the books and the language of current speech.

2. Brief history of the movement -With regard to Tologo the same difficulty must have been felt by one or two strangers to the language Chief emong them was Mr P. T Seinivece Lyenger who is the head of a college where Telagu forms the medium of instruction. He must have agen an uncompromising divergence between the forms used in books tought in the class room and the forms with which ha grow femilier in hie acciel intercourse with respeciable people of that constry He must beye felt considerable difficulty in recouciling the linguistic etmosphere of the class-room with that just outeide. The medium of instruction, he thought, was so difficult that the interpretation of the language rather than the electrication of the acceptine matter of the book formed the sole occupation of the teacher. As the head of that mentation he could not tolerate this waste of time and energy on the part of the teacher and the taught and took the effective eten of dispensing with all text books for the communication of knowledge and enhantituted oral testruction by the teacher in appropriate language approxitnating to what was enoken outside. He did not stop with cetting matters right in his own school but to give the benefit of his observations to the world at large, poblubed a pemphlet entitled " Death or life-e plea for the veroscalers ' This naw creed -as it is cataral with snything new-wee first confronted with ridicale which gradually developed spin active opposition from the people of those parts. Portugately for the movement, just at that time Me Yates was the Inspector of Schools for the Isi Girele, perhaps experiencing the same difficulty 10 connection with the secondary and slamentary schools with which ha had to do much. He immedistaly caught the spirit of the pemphics and became the apostle of this faith. Ha rapidly introduced this way of name language for teaching purposes over the entenny area of three or four Telugo districts under his jorisdiction Each village in those parts was acquainted with the necessity of this Change Under the enthorsty of their educational head they did not healtate-at least outwardly-to introduce thurchange. But evac than there was a slight marmar emong as ac to why people completely

alien from our language abould interfere with it. We did not recognish the fact that foreigners or strangers to the language ere placed in a better position to note such things then the people who, with some difficulty, here fallen into the habit of veing the two forms of the language. This prejudice egamas the originators of the movement was transferred to the movement steel! A bne end cry was raised that these two people advanced from the corraption of the methods of edecation to the correption of the lauguage of the country. As teachers we happily realised what the corruption of the methodsof education lad us to and hereafter we should attempt to realisa the results of the so-called corruption of the vernacular longuages. The moroment progreseed forther Very soon it was brought to e crisis. People of smmones learnes and life long activity in lioguistic work like Mesers G V. Bememorti end G V Appe Bow supported the movement. New books on the reformed lines were written in the Telugu language. These books were prescribed es eet books to be studied for the purpose of public exeminations. This recognition and pessive cupport of the authorities brought the whole sifeir to & crime end scare opposition in the way of poblic meetings, resolutions and deputations was then rescrited to This opposition is, as a matter of conres very healthy and necessary to ect as a check upon sey undue radication of the enthusuate. It is a sure help to closely bring out the real natura and eatent of the change required and it is believed that at will end in a compromise heatwen the two modes of thought by blending the best of both sides in one common cause. The arm ra to have e recognitation between the apoken and the written languages by making the one closely approximate with the other-In dealing with the question one should relie onesaif from the polemic to the acceptific aspect of the The consideration of the question is to be based apon erientific principles relating to language in general, the spoken language, the written language and the relationship between these two.

3 Languaga and its function.—Language concited two alaments—thought and its expression. It is the embodiment of thought and there can be no thought without language. Man is endowed with the power of thicking and the power of rassociting. These thoughts and generalisations are to be expressed in some sort of symbols. The symbols may take the shape of signs and gestures or the words of articulate speech so the result of the modulation of the voice. But vocal language in considered more perfect then any other kind of language, as being better adapted to express the mentfold ideas of men's growing intelligence. It is also less arbitrary and conventional than any other form of expression. Gesture language is universally intelligible, but is can not be used in darkness ur when men are not face to fags. As such its scope for espression is stear ell very limited. In profesence to all the rest, vocal language has, therefore, the advantage of being made universal in limited erese. The cenential thing shoot a language in that it should be "an instrument for the communication of our thoughts to others." Communication of thought involves the elements of society and men is alweye a cocist animal so far us language is concorned. " Language is a social product, at once the ornation and the creator of the society. It bas come into existence by the needs of daysloplog anciety to satisfy the ever-growing wants of daily life. It is the natural product of a society, the living expression of the mind and spirit of a people ever phanging and chitting," says Sayce. The laugoege need by a society reflects the amount of thought possessed by it. Articulate sounds formed the chief means of expression current thought at any time. For a long time the past was left nurecorded, but when the art of writing was invented attempts were made to preserve the thought of passing eges in these new symbols. Therefore writing was used to symbolise thoughts indirectly and its office is but secondary as forming a symbol of the epoken equade, the real and original means of expressing thought. This leads us to infer that there is a written lenguage because there is a spoken language previous to that.

4. (c) The speken Larguage—Its natars.—We are therefore princating concerned with the speken language as the larguage which forms the basic of the other. The origin of language implies that the appeken should come farst. A child is capable of using it. A savage size can use it. Even a ciriliated man trying to maintain a certain kind of artificiality in his speech for the sake of politoces, in his satural moment as when be is, in we same

spontaneously reverte to his spoken tongue to capress bie ideas. Language in the form of speech sounds was in existence long before the art of writing was invented. The faculty of speech, with most human beings, ie natural and inevitable Physiology as well as Psychology require it in mao. The innate love of imitation, the necessity of making one's wants known, the healthy desire to exercise lungs, and the natural gift of articulation are some of the caners for the origin of energh (sculty, Language, in this eary form, is developed later by the society on a whole Wyld says. " Spoken language is the natural expression of the personality of living bemon beings; from the nature of the case shin must vary along with the change of their mental and hodily habits. A nation, a small commoulty or an individual, is continuelly geining new experiences, feeling new sepirations, discovering fresh needs. All these conditions find expression in their speach,"

(6) Change in the spoken language.-This closes association of the spoken language with the society' given is a new and interesting aspect, the aspect of daily change and progress, the aspect of historical and scientific treatment. Thought is infinitely, progressive and has a constant but ever-varying evolotion. Is is conditioned by the uniform laws of outward nature aubject to the adeptation and modilfirstion of human intellect. Likawise is it with lenguage which is but an expression of this thought, the external symbol of the inward idea. Language undergoes a chauge in its sound as well se sense. This change is partly caused by the temperament of the individual man, as condisioned by his feculty of imitation, a wish to be clear and emphatic, and a tendency to be lasy and avoid esertion. Besides these there are other natural causes anch as climate, food, occupation, geographical boundaries, contact with foreign nations, development of civilisation, playing an important part in the change of language, Individually or collectively a mumber of causes act upon fanguage slowly but corely and subject it to a process of almost delly change. All these causes can be summed up in "the necessity for transmission from month to mouth." Without such a transmission there can be no change and the existence of such a change clearly shows that language is primarily and mainly used for the purpose of daty communication by means of speech sounds Therefore, as Sweet says, "The main axiom of hring philology is that all study of language, whether theoretical or practical, ought to be based in the spoken language"

(c) Supersority of the spoken form -In the study of languages this one point is generally missed and popular misconceptions shout the spoken form of a language are respected. This is the case not only in the Indian languages but also, as Sweet asre. "In Epropean languages when the difference between the literary and collequial to much less then in the oriental lenguages, most gremmerious tactily seems that the spoken re a mere corruption of the literary isuguege." This is true of the Lugheb language too For Wyld says, " If at m managed that more attention should be paid, on the teaching of English, to the aprice lenguage, there is an outcry to the effect that English Interature is oos of the noblest of human achievaments, that the ordinary speech of children and even of grown-up people to full of valgarisms, mistakes to grammar and solecisms of every sort and that by dwelling open English as it is spoken, these errors will merely be confirmed " With regard to Phonetics. a accepts of the spoken sounds, a similar misconception saists "It is still regarded by the inspority of educated persons as either a fed or a frend, possibly a pions one."

(d) Correciners of the speken language -This leads us on to the question of fancied errors-popular muconceptions-of the spoken language If the path of development of any language to well constdered from the scientific point of view, the terms mistake, valuatism, correption, here no meaning at all. One who is acqueinted with the processes of linguistic change and their causes will readily understand that each form has its own place in the general aya.em of language We are purely concorned with the facts of any larguege and the endearons is to form a clear conception of what is and baw it aross from what was. Wyld says, " Whatever exists in the natural speech of a community at a given period is right for the speech of that community of that particular moment. . . . Any manner of speech which is foreign to the metural speech-hebit of a community at a given period is wrong so far es the dulcts of the moment in this particular community as concerned." The mention of a lenguage are to be judged according to its quantities as a medium of expression. From executable point of view there cannot he a better criterion than these for the correctness of a lenguage. Net for practical purposes an estitudar and concentrational test of supersority may be applied. What is received and recognists of such correct forton of speech in politic and cultivated account may be affected to be the standard of a language. Even them is only the spoken language of this higher society this should be taken into consideration.

5 The written language - Sida by eide mith the epoken language the written language or, as it is generally known, the literary lenguage finds its existence as a matter of pecessity. It is the indirect symbol of the thought to be expressed Spokea language can represent only the corrent thought. but the written language is the record of the past thought of a community Since the sem total of such a record of say country goes under the name of its literature its language bas come to be called laterary language. The same respect which to ettached to enything of the past sges is given to this language and it has come to be considered the original, correct and standard form of languas Naturally, the moment language is represented in wretten symbols, et attains a certain degree of finity and permanence in all direction s-sound, sense, grammar, vocabulary. It is full of superfluons words and phrases which the spoken language generally gets rid of People hare fellen " into the hebit of considering language se something out and dried and fixed once for all in a definite mould.' They are " apt to forgat that ell literary languages ere to a certain estent artificial products. They are deliberate and bound by tradition and they lack the spontenetty of ansinded natural atterance." As Paul (Strong) saye the written language " is naturally so abstraction and one of the first order It is not a complete of real facts, rest forces but merely an ideal norm prescribing rules for speech" " It is nothing but a rigid rale which would bring linguistic morement to a stand still, if it were always strictly carried out, and is only competable with change in so far as its outhority is disregarded."

6. Connection between the spoken and written langungs -- However, there is always a cluse connaction between the spoken and the written language. Sweet says "it is the spoken which is the real source of the literary language. We may pick out the most far-fetched literary words and forms we can think of, but we shall always find that they are derived from the colloquial apeach of an earlier period Every literary language must indeed in its first beginnings be purely colleguist." As such the written language is in all cases behind the spoken in development " in the sense of being more erchaid and generally less fiexible and adaptable." In the case of a language which is no longer spoken, is, a dead larguage, there can be no inriber change or development in its written form. It is because "the literary form of a language which is still apoken, is forever receiving fresh life from the collequial speech. New words or expressions of the spaken language ere gradually transferred to the language of books and there they ramein." This closs inter-connection hatween the two forms of a language does not allow the written form to become fixed nuless it is consolonely and acropulously nagicated. This connection, if allowed to come into play, keeps the written form ever phanging and provided with new life which naw life comes primerily from the apoken language. This enables the two forms of the language to be fairly approximating in all raspects at any stage of their growth. This is what ought to happen in the natural coorse of events and what has happened in many countries like England where conservatism is not accercised in the wrong direction sait is done in this country. For a long time past for want of a concentrated public opinion in matters like this, individuals with a single bent of mind controlled the literary and the linguistic operations of most communities of this country and the result is that such a divergence of the two forms of language has been created as can not be removed except by tremandons affort

PART II

7. Introduction.—After seeing why there should be this close approximation between the two forms of language we shall try to see why there is this divergence in at least one of the remarglers—

Telingu, my mother tongue—and anggest aoms remedice to make up the breach. Here I don't trouble you with the point as to how far far the extent and character of the divergence between the two forms, it exists. Those of you that are interested in it may, with great advantage, read the Appendix of Mr. G. V. Rumamorty's Momorandum on Moderr Halogu where he treat of this difference in point of prununciation, decleasion, conjugation,

vocabulary and idiom. 8. (a) Literatura of Telugus general .- To understand the reason for this difference, it is necessary to consider but briefly the development of literature in the Teluzu language. A student of English literatore comes to the and of his sobject with a definite idea of the evalement of development of that literature in all its aspects. He can see the regular growth of crode forms into perfect types and in such case exactly account for the development. He cen clearly gange the inflorance axerted apon this netionel work sither by individuals or foreign nations or certain national moraments at bome. social, political or religious. The alightest change either of the form gard, material utilisad or metre adonted can be accounted for, in the light of one or other of the shove influences. It is so scientifically historical in its development that M. Jessorand proposes to call this ustional correct of intellege tual activity not as it is nonolarly called the bistory of English literature, but the literary bistory of the English netion. Individual authors, as a result of their ganius, provide the readers with some kind of novelty in each of their works and at the same time keep up the barmony with the national apirit. In this one can fully realies the tene function of literature, .vis. to ambody the growing aspirations of the nation in its record. This naity and grados! flow in the literary current can be better appreciated by contrasting it with what Telugu language represents in the field of literature. The extent literature of Telugu begins abraptly. It has no development, no beginning, no middle, no end, to be so called. It has only one of these whichever you choose to call it.

(a) Faret period—II the Telugu translation of Mahabbarata begun by Nanusya in ebout 1020 A. D. and completed in the course of 300 years afterwards by Tikkana and Yorrana, is the first work, and till very recently or even now by many, considered to be of such a perfect it posin point of language, mears and grammatical applications, that it is antical to violate than to one yettink, we see say that the Triuge hieratura coded where it began. Three three poets are profound. Stacking about any and poets of a very high order of mere. They did all that they are the profound in the profound of the best they actuarily should do note those across associa. They showed their caliridadisty by freely altering the matter as we'll as the manner of the original. Their Senskris action triple is seen in the nature of the profoundation of the profoundation of the original. Their Senskris action triple is seen in the nature of the vocabulary rand by action of them.

Nannaya need § Sinekiit and § Telogu words Tikkana need § Sanskris and § Pelegu worde Yarrana used § Sanskris and § Telogu words.

The second Epic Remayana was similarly trans lated by Bhaskers and other posts. It is also full of Sanskrit words and sametime and is acknow ledged by rhetoriciene as a stendard work Considering their sobolership, the Sanskrit original which they were translating and perhaps the porarty of the Telogo language in the sarly days thes ebnormal borrowing of Sanakrit words in excusable in them. But there is one unperdonable sayary done to the Talogo language by some of this age. Even in this very early stage grammers books of Proceedy and Rhatoric, codifying the neeges of this early work, were produced, as some say by Nannava himself, or at any rate by a group of m nor literates of that time It was passively as well as taculy imposed upon subsequent writers that if era should be no violations from these acknowledged magne The cert is once for all fixed before the horse and no further morement is made possible excepting the impatient atamp of the boof and eager aids glances of the animal antions to move on naturally

(c) Sessed period—A second group of posts in the lath and lith centuries, come roand Streaches and Potenne Streaches is in the work smudar to has and Potenne Streaches is little work smudar to his and Potenne Streaches is little and the second of more of an individual point genies. The result of more of an individual point genies. The result of saidly the rebotronians according to the rules already found and in discarded as a stendard work. It as erron considered by some as a bean of errors and all those that are guided by it are therectivered as the potent (Krober).

(d) Third period .- Another epoch of poetry commences with the work of Krisinedevareys and the illustrious group of poets that surrounded him (about 1200 A D) Hitherto literary work consisted meraly of translation of Sanakrit classics. Peddans atruck an original path in literary composition. Ha need his emegination in the construction of a good plot on the bests of an original Poracio story and wrote the first probaulanm in Telugu language. In the menner hade bound down by the roles already laid down One of he contemporaries Bhathimorti smetated Peddena in this kind of work and managed the etery, construction of plot and the etyla of writing is a more mechanical way. Posts of enbequent times found it very easy to closely imitate this less work and they heve been doing it emon theo Ao original fixed in all its sepects is laid down and it is closely copied in accordance with the models set and the rules framed in the very dawn of literalura.

(a) Its relation to the present question -Sa one can sen that there is on noticeable deriation from the standards laid by the original writers. There is no living national spirit ambadied is the iteraty work. Correspondingly there is no marked change even in the language used I am of opinion that the works are so stereotyped that there is no reed to read mora then a faw bocks to form an adiquate idea of the whole literature. An doubl here and there works like that of Pingell Surence display wonderful capacities of original plot-construction, development of obseranter and amouthness of style. One pfueble leature to be noted in most of the works is that the individual genine of writers feintly appears now and then and scame to be attifrd by the set rules by which they are guided. So much about poetry Proze of any form wee not writtentill very recently and we may think it a blessing that there was no prosa at all For 10 prosa, the limitations required by prosndy being removed, there was a free play in the length of samesame etc., need The author of a proca Ramayana in very recent years in the preface mentions that the purpose of his work into make it easy and intelligible to women and children and obviots the processity of interpreting Pundita of the Telugn Remayana in poetry But some of the first few pages that I read were not easily entelligible even to me. However the writer

is to be congretulated for realising that there is a necessity of such easy prose renderings of Telagu poetry. Another chief depertment of modern literary work is translation of Sanskrit dramas, otc. One can easily ese that most of them are more of transliterations into the Telugu alphebet then translations into the Telogn language. Here I wish to sommerise some of the percietent evils of the modern literary compositions as a recult of this false respect to ancient literary models. They are, the nee of archaic words, plentiful usegs of Senskrit words, samasama and candhis, and of obsolute grammatical forms and constructione, set descriptions of acenery and situations in set phrescology, the use of stereotyped metres and some nthers necessarily attending upon a spirit of concervation Hereafter I should like to angreat some remedics to counteract these evils and bow it is necessary for us so teachers to do it

PART III,

9. Importance of this question to teachers,-The inter-connection between knowledge and language bes been but recently well impressed apon your mieds and you must reside that you are the main imparters of knowledge. Whatever he the national requirements of literature, the business of laying the foundations of the pation, the responsibility of treining children to that ultimate goal wa have deliberately, with some personal excrifice, chosen to be one part of work. We are expected to do it maiely by imparting spitable knowledge to the children entructed to our care. For this we require good test-books and the went of texts snitshle for heginners iekeenly felt Mr. G. V. Bamamurti says : "I can openly declare that my diligent search among many Telogu books fuiled to find a single story book which a child of eight years could read without the help of a teacher, while there are thousands of such books in English, French and other Enropean languages." The pride with which the other day the Kindergerten Superintendent apoke nf Kipling's Just so Stories and Stevenson's Child's Gerden of Poetry as being the best of any European languages is really anviable. But for Tamil she has to make her own primers for infant classes and her reason for doing it is that there are on enitable books in the language. In this connection Sweet says, " The main

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foundation of laggangs, study will be connected texts. The reader will beneaforth be the centre of endoy, to which grammer, dictionary and other helps should be strictly subordinated. It is only in connected text but the lenguage itself can be given with such word in a natural and adequate con-

text." 10. Text-books,-Hero I wish to formulate certain principles for writing test books which I majoly borrowed from Sweet's Practical Study of Languages. The different kinds of texts should be written from the point of view of their fitness to serve as means of linguistic training. There abould be a regular sequence in the ceries of such hooks, Books fit for the juveniles ere to be concrete, chiective and matter of fact As an advancement upon this, books for adults are to be abstract, subjective, imaginative, poetleal and senestional. Descriptions, perretives, etories, dislogues, or s harmonions combination of some of these will be quite enitable. Ans aubjects for this treatment are mostly to be borrowed from nature and natural phenomena, eleora modern hiegraphics, fairy teles, etc. Historical narratives and narratives of adventura form good meterial for the higher kind of readers. Each text should form a connected whole and should he of moderate length. Each word chould, as far as possible, have such a context as to leave no room for healtstion as to its meaning. For this the metter most be familiar, treeting of aitnetions or incidenta with which the atodent is, or can by plotures, etc. be familiarly associated. The language should be us simple as is epitable for the standard and this again demends the nee of the spoken language. Short sentences void of matephore and other figures of speech make a good beginning. Simple poetry of ballad kind, represented by such spin songs so the betsle of Bobbili-as stirring as the ballad of Cherg Chess is to the English child and adult-or the rhyme of Bapparow and similar poetical compositions, form an excellent introduction into the field of poetry. In these there is postical rhythmobiained by e few limitations imposed upon the ordinary prosewriting. Texts may also be so framed that a gradual development of the grammatical categories are embodied in them and form a good means of imparting some of the essential grammatical principles by the inductive method. The learner as

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he advances, will be ably to choose his texts with greater freedom till at last be is able to read with profit the scinel literature itself unmodified and uncortesled Beginning with modern prose in its simplest form and that which approximates must closely to the spoken language he can proceed to the higher literature consisting of ercheic pross and postry The practice of former days and to some extent even now as quite the opposite of this In one days Nihmanjari and Nalackarstram inn untract from Bhoraiam) were the two books studied. one in the higher and the other in the lower cleanes We were required to mester the vocabulary and grammer of these books and that formed the sole linguistic ground work. That is to say, the learner was abruptly introduced to the literature of the language. It was partly because the learned teacher found these quite low and trivial and partly because there were no entiable try book.

11 (a) Style general -The question of etyla is one closely connected with the making of anitable text books Postry and prospars the two mem hasde noder which ell literature can be brought and a distroction abould be made in the styles to be coed in each of these. Each has a distinct function to serve Postry records the higher feelings, passions and imaginative and ideal thoughts and it requires a correspondingly dignified style As Prof Masson says ana should go to the paint to azpress such idees On the other hand proce is to corve the ordinary work a day purpose of eccentific exposition. philosophical argumentation, plans narrative and simple description. The former is essociated with song ornsment and elaborateness. The fatter is associated with conversation simplicity and plainness. DeQuincey bosats of having written what ha calls impassioned prose or prose in which portio sentiments or sublime passions are captried. That ie, he has done in pross what ought to he done in poetry Prof Masson while disapproving this attempt draws a distinct demarcation between the styles to be employed in the two forms of literature. Milton failed in his prote because he adopted the poetic style of classical hombest and Wordsworth sa said to have failed in some of his poems ea he bordered in them too much up the process a ple These examples are enough to show that two different styles, one for poetry and enother for prose are necessary

(b) Postry -Teluga literature has but one atyle It has postry with more than the necressry trappings and it has no prose to be so called Even in the poetro styla there is a hopeless fixity We shall first enesider the point of prosody the ontwerd garb of poetry Teluga by steelf possessed certain matree each as సేవర్లు, కండిక్లు, గీరమం, ఆటవాలని In their structure these are free from mony restric tions and are easy to be written. But along with everything else Sauskrit metres too were borrowrd. These, complex by themselves, are made still more complex and fattered by new limitations imposed upon them In Sanskrit thera was only cool used to denote appropriate stoppages in the course of a line The Telago postry reterned this bot to a quite different sense, in the sensa of letter bermony In addition to this they introduced prais or letter bermony in the vertical letters. Thus metras ere bound in hoth ways. This relationship between sounds is so minutely insisted open that Potanna is declared a faulty writer for esecuating one kind of 8 with the other kind Soberqueot poets blindly followed these limitations and with difficulty could make themselves were fiers neglecting the real vocation of poets. In this respect egain we have a lesson to learn from English literature; how it freely borrowed metres from Franco and Italy in addition to sts own, how it experimented with all those forms, adopted or rejected them as they were untable or not for a particular form of writing or el particular ege. Rhymed metre, blank verse, stants formeand doggreel, each had its day according to the mode of literature Blank vores as fire from the limitstion of rhyma and most approximating to the prose form, is generally approved as best suited for long parratives. Such a blank-verse freadom is absolutely required in Telugu. Rhythmical arrangement of sounds to the exclusion of any other limitations may be precticed in writing poetry Examples of such poetry are to be seen in the poem of Bappads recently westen by Mr C L Nersambam.

(c) Pross - Pross again has the danger of following the wake of poetry in its etyle. In the bands of some its salishle to be present and archaic feeding to become fixed and resisting change. This tendency is to be carefully guarded against. The aim of the Royal Society as put forth by Bishon Sprat was " to cract from all their members a close naked natural way of speaking ; positive expressions, clear seres a native essiners, bringing all things as pear the mathematical plainness as they can and preferving the language of artisans, countrymen and merchants before that of wits and scholars " Is in to be clearly understood that its work is mainly conversational or something nearing it with the spoken language as the medium of appression. But snoken language implies change and the style of writing in the anoken language should corresponds ingly nedergo a phange. Literary atvis changes from age to age. Each generation has its own stela "This is becames the literary language is kent living and flexible only by a close relation with the nolloculal speech of the age. The best press is never entirely remote in form from the best pareemonding convergational style of the period. " This is to be seen in the changes which the plain and simple style of English prose underwent from age to age in the boods of Dryden. Addison. Swift, etc., till it becomes thoroughly racy and varnecolar in the hands of Kipling and other modern writers. It is such a remacularity of style that should be attempted in our prose works. The tendency shoold not be to value style according to the degree of its departure from the plain colloquist atrie.

12. Dialects.-Colloquist style and the use of the spoken language create, in the opinion of some, the ibanzmonotable difficulty of dialects. We abalf now try to solve that question. In language avery individual differs alightly from overy other. Change in the speech of a community in the result of the tende cocies of a bost of individuals. In a community where social intercourse is frequent, the same form of sparch is generally used. Individual differences are so slight that they are inappreciable and do not progress beyond a certain point. There they are checked by the corrective ridicals of the associates. Therefore for all practical purposes the speech of a community can be said to be homogeneous and any chance in the language must be introduced more or less by the nonnimous consent of all the members. The unity of a language can be kept up only by

aniform intercourse between all its apeakers. The question is whether enperturities of intercourse are freely given to all members of a community? There may be no anch construction and isolation of any particular part of the community may be created either by the namenageable size of the community. difference to generaphical political or social condisions or difference in climate soil the general mode of the religion and many other things. Such isolation due to one or other of these cances results in the solitting on of languages, into a pomber of dislects each differing but slightly from the nearest one Holers this difference is but small they will on langer be dislecte of the same language but languages of the same group. So long as we are: concerned with one language and its dialects we may be sore that the dislects "will shade off insensible one into snother " and sufficiently overlan to be easily nuderstood by individuals of two different dialects. The differences are greatest in the case of the extreme dialects which, to some extent. can be counteracted by the infloence of the central dislect.

Bot now e-days such an isolation is possible only in the case of the inhabitacts of small country willayer. Under the present conditions of facilities of all kinds for intercourse there is always a class of people in whom there can be no such isolation. By virtue of their occupations and position in society they helong to no one particular community. At one and the same time they are members of several communities brought into relations with people of every class, of all manner of employment and coming from widely different parts of the country. The result is that the speech of such a man does not represent one single dislect as applied by a single class or community hat is a compromise of several different dialacts though one or other will preponders ste in determining his mode of atterence. The class of propis referred to here are the educated apper classes in all parts of the country. Their language can, for all practical purposes, be consisdered as the standard language of a whole commonity in which are merged the minor dialectal differences. This degree of polformity is don to the free inter-mixture of all people of a certain s mount of wealth and position, reodered possible by the facilities of modern locomotion. This process of leveling a greatly helped by those great meeting places of the upper classes—the public school Circlisation brings within the accessity of contrals asince and a becomes increasing to use one special dustice as a means of general communication throughout the country. All this shows that ever if there are marked directal differences in the language of a country ret there is very possibility of periong up the dustice of a perticular class of also community as the schooled district of their particular languages and cump at forcing the return of the perion of the period o

The precious case of England should belo us in this as in everything It is a remarkable thing bow comperatively homogeneous the stendard English dielect actually is Standard English or polite English is not a regional dialect. It springs from the same source so the literary district, i s. the London dielect of the loth century and keeps itsalf up by a deliberate selective and eliminating process in the chaorption of the other dialecte. Yet England, Scutland and Ireland possess altogether ionnmereble dielecta. Ekeet in bie book nn English dislects gives a list of the groups of English dislects and theyere 43 in number Is may be noted that shey are groups end not individual dielects. Even then he says he ' simplified metters by omitting to mention some of them, so se to give merely a peneral ides of the chief dislectal localities " If England a country of so much speech varieties in capable of maintaining a common stendard in written ee well ee in spoken lenguage there ecems to be un dificulty to do the same either in Telugu, Tamil or any other vernacular community where efter all, dislected differences are but very Another thing which should he noted in this connection is the quastion of the need of a unliorm international language, a movement started of lete years. It may or may not be possible but it le ergued that " the facilities of international communication ere repidly developing the geogra phical ladetton of even the motaelly remotest constrict of the world will in time venish, ctr." Whatever be the merits of these arguments and the case as a whole, it teaches us one very important lasson that we can with perfect accees attempt to have a standard in the spoken and as a consequence

in the written language at least for limited areas as are represented by asparate verneculars.

Another thing to be noticed in this connection is that shere is no necessity of maintening on abso lutely pure standard Hereagain we can learn lessons from English writers They do not hentete " to barrow from their dialects, meny terms that ere still fresh and recy and metinet with a full significance " Tennyson a coreful student of English, not only wrote soveral poems wholly in one qualect but introduced dislect words elsewhere Skeat ears, but as a metter of fact nearly all nur chief writers bave reengmend the value of dislectal words." There are plenty of provincialisms in Shek-epeare. Burne writes the brat of bie work in a dielect Dielecta bave an equal apace in prose place parts culerly in the field of navel Skeet eays, " Here is, in lact, no limit in the good use to which a reversat study of our dislects may be put by a diligent atudent. They shound with pearls which are warthy al e better fate then to be trempled under Therefore I wish to land you to believe that a answerselly intelligible stendard dislact with a healthy and appropriate mage of the provincial dislects is quite possible for writing purposes. At any rote and under any form it will be lar more intelligible then the lenguage up in now need in books

Certain practical difficulties arising from the variation is dialects can be overcome by exploses tory foot notes if they ere few by glocterire at the end of each book if they are many An ordinery elphabetical dictionery for practical use will ba of amments bely as solving this difficulty. In the nature of thongs it should be meinly a dictionery of the present etegs of languages. Its foundation should be the modern colloquial and the proposed literary language A cariain number of archaid words used to the higher literature may with edvantage find a place in it A dictionery written on these lines will not only help this purpose but it will also be a good sobstitute for the standerd dictionary of Telogn et precent, sie e combinetion of the Namelinganusasanam of Amereaimha end the Andhranama Sangraham both of which are posticel works giving at the same time the aynonyme of one and the same words

13. Vocabulary .- Contact with foreigners is ons of the main causes of change in language. The vocabulary of both the languages is markedly effected. A certain amount of new words are incorporated into both the languages as a result of bilingualum A bilingual apeaker will ulten introduce foreign words when speaking his own language and vice versa. The actual necessity for such loans is felt, to designate ideas or objects lamiliar tu one people but not in the other and for which no name exists in the language in use at that moment. The new word is adopted at the same time as the idea or the object which it denotes. Now words and new ideas are learnt simultaneously and this is the netural method. Three strange ideas and objects are denoted either by words directly borrowed from the foreign language or by new words coined in one's own language. English language was free in its horrowing from the earliest times. It came in contact with meny nations from time to time-Scandingvisor, Normaca, French. Italian and Garman-and free borrowing from each of their languages and from Latin and Greek, either directly or indirectly through French, in to be seep in it. The nature of the words borrowed is either scientific, ecclusisatical or court-terms. Econ from India they have heap borrowing a great number of words-bendy, cooly, corry, katemeron and a bost of other words. A peculiar example of the freedom with which they respect popular etymology is seen in this. The Hamilton Bridge of Madras is converted into Berber's Bridge simply becausa the native a of the land by e misprounuciation of the word made Hamilton mean barber. This is a clear case where aentimental objection is to come into play. Yet the force of popular linguistic development can not be effectively upposed. In spite of this extraordinary freedom of spirit in horrowing the English people once had a tendency to set up a reaction against the undue influence of classical languages.' They resorted to the arcond method of coloing words out of their own language. Un gothrough someness is made to replace the word impenetrability. But this spirit acon and naturally died away. It may sound to you something like the translation of of take to into garden to come, and tropic soch into its mother's fruit. Such coins

ings will be even as ridiculous as these renderings. Of late the apirit of Telogo literary writers bee heen similar to this. Telugu language, in the very beginning has drawn too much from Sanakrit in the way of words and summans. Poddana and his contemporaries did not besitate to borrow even from Hindnatani. Somehow, all un a audden, linguistio transactions with the foreigners ceased. When the literary language has been brought to a final eattlement this debit side also is closed. English words have been particularly tabooed from literary Languago though on the spoken aids thay have been freely and permanently absorbed. Even children and women are in a position to nee words like road, motor car, engine, court, collector, and many uthers in their most appropriate censo and they each find it very difficult to replace them by Telugu words. But in literery Telugu, sa is pointed ont by Mr. G V. Ramamurti in his memoraudum on modern Telugo, even such late writers as Mr. Vecreatiogem have recourse to opintelligible comings such as మండలక్ష్మ శాభాడ్ థానకార్యస్థానా Saute (Police Head Quarters Lospector). Iam not able to understand it even side by side with the English expression. Writers of scientific books in the Vignanachandrika Sprica Indulge in cololog terms for acientafic termicology. This is going too much against the natural current. It deprives Telogu of its only chance of becoming rich and developing along with the other languages. There should be a definite attempt to svoid this tendency in test books to be written bereafter and words of eny language in popular usage abould find a place in them. .

an intent.

Another cut it he noticed in this connection is the use of snormona Sankini Vocabulary and the use of snormona Sankini Vocabulary and seamanams in most of our litarary books. The reason for this accent to be behat for the Tellugar writer flatguly by itself reasorer the object of rainary. Frimatily Sankiti was taken up. Any cue, who and not succeed well in their licendentially took up Telluga. A thorough Sankiti grounding with come acquaintance with the principles of Telluga grammar was considered quite antificient to write in Tellugar was considered quite antificient to write in Tellugar was considered quite antificient to write in Tellugar was considered up to the think the principles of Tellugar grammar was considered up to the think the principles of Tellugar grammar was considered up to the think the principles of Tellugar grammar was considered up to the think the principles of the think the thin

language should as a matter of course, be allowed but an under superfluity to this direction should be avoided. The vocabulary of books should also keep pace with the vocabulary of the spoken language.

14 Grammar Mr J Remeyye Pentulu in the conclusion to his Defence of Laterery Telingu ep proves of most of the steps anggested in this paper for moderning literary Telugo , but with regard to the nee of words and forms be seems to be special. tog on their being grammatical. He puts that word in Italics I slee learn that some of those who are professedly working for the change of style in vernaculars are taxisting upon the orestion of a gremmer of epoken language before books in that language ere ettempted to be written. They seem to be still boond by tradition to giving this modus importance to grammer They are once more potting the cart before the horse I think that testbooks embodying the spoken language according to the standard agreed upon should be first written and the work of framing a grammer oot of it should be left to a subsequent men The hosiness of the gremmeries is something like that of a test-book equotator If the one tries to present the ideas clearly the other tries to present the forms used in a systematic way To overlook this point is to mistake the function of grammar We have seen that language to no artificial product. It is the hving and natural expression of a people ever changing and shifting Ite sole standard of correctness is enstorned the common usage of the community, what is accepted by the body of those who speak that lenguage. The standard is not what is laid down by the grammariso The grammerian "extracts certain rigid rales from the works of a selected number of writers and treats every thing which does not conform to these rules as an axception or a mistaka," The work of grammer is merely of an inductive nature, As Isoguage progresses words, forms and constructions ere classified under separate beads and roles of a general nature governing these various clauses are deduced therefrom As such grammar is to follow and not preceds a language Such grammers are called descriptive gremmers and they serve no purpose to the language in correct usage sa they are products scheequent to the formation of a language

Here the question may arise if this kind of grammar has no purpose at all to serve It has a purpose It is the record of the linguistic phenom one of a past age systematically arranged. There is a higher kind of grammer, as, the comparative gremmer the compiletion of which necessarily requeres such aystematic proords of a number of lenguages This is important as forming part of the ecience of language and descriptive grammar forms the crude meteriel for it. Even this kind of grammer does not in any way control Isognage in ste formation and development but it simply makes one anderstand how at was done. It is purely of scientific suterest attempting to teach the scientific conception of law with regard to language which like usture is ever changing bot in acrordance with fired myiolable laws. This is the real function of grammar su ste bigher sense and the lower form of grammer simply forms a mesne to this sod

To overlook this single point in the proposed reform is to get once more into the error of the old Telugu writers, They ondertook to enthorship unly after mestering first Sanskrat and then Tologu grammer If each a grammetical grounding is considered necessary even now the times will be very soon repeated. The main attempt of this reform should be to counterect the mojury done to lenguage by the long-escercised tyrannical sovereighty of the fixed roles of grammer To bring the reaction against the too rigid sovereignty of the uld grammer to its climar, grammer of any sort should be suspended for a time. One need not be strend of snarcly and chaos and even if that contingency should stue we will have the advantage of creatings new republic of language and, if necessary, e grammer out of it on quite modern and scientific lines. This test place given to grammar in the treatment of this subject is partly intended to enquity ate real place in the consideration of languages

15. Obselvation —This brings me to the close of my paper. The question as a whole has two especies—the ostional and the aducational. The initional supert of the desired process in a here and indirectly through the educational supert we have

much to do with it as teachers. In the latter part of this paper I briefly indicated the connection of the teacher with this question, the sim that he should fulfil in this and the practical means of achieving it. One may be aurprised to see that I have not amply illustrated my statements from the vernaculers. I avoided doing it for various reasons-In the first place I was afraid of making the paper more lengthy. Secondly because, if at all I do it. I should have recoprac to Telego language while most of the members of this Association represent languages other than Telugn and I sincerely brg their pardon for referring to Teluga here and there. In considering many of these points I thought it would be advicable to bring in the analogy of English language as it would readily appeal to the understanding of the whole lot. More than all is was my chief aim to make it a general treatment applicable to all remaculars besing it on principles of the science of lengueges. As such meat of you may be tempted to call it merely theoretical but to make it practical lies in your hands and in left to you. If it only leads you to pay more respect to some of the statements made here I should not for a moment besitate to aver that I horrowed them from great linguistic authorities and cometimes in their own language my attempt being to present the subject in a convincing way as so much of scenticlass in connection with this seems to prevail that some are of opinion that it is not a question worth considering. I wish to end this paper with the belief that it is a question worth considering. worth discussing, worth putting into practice.

THE ENSUING UNIVERSITY ELECTIONS.

Br AN EATERNED EDUCATIONIST.

IN inviting the attention of the public to an important editorial on "University Elections" in the November issue of this Journal, we venture to offer the following remarks to supplement the same; The registered graduates of the University of Madras are anumoned once more to elect two representatives to the University and we abould like to draw their attention to the aeriopaness of the responsibility which devolves upon them. Judging from the previous record of the decisions of the electorate, we bave no besitation in declaring, that at least on some occasions, the franchise was not exercised in the best interests of education. The voters have often yielded to the importantly of persistent and organised canvassers, without bestowing any thought on the question of their special claims for professing to talk on educational matters. It behoves them to examine the claims of the namerous candidates that have now come forward to aspire for the two vacant ceats, in a spirit of impartiality and enlightenment. There should then be no complaint of the

We are auxious to place before our residers the claims of two educationists of distinction who have entered the field. Principal Rajas Rama Iyer is an educationist of considerable experiences presiding over an institution which has played no nuimpertant part in the educational progress of Scathers India. We have always known him to be a gentleman of great independence of character, and he has also to his credit powers of especing of a fairly high order. He is thus eminently

frapchise being abused by the electore.

qualified to enter the Senate of the Madres University and we have no dorbt be will distinguish brosself in that body rismuch by his fearless criticism as by his expert educational knowledge and experience. It is nothing short of a grave rightice that a large collegate obstitution of the type of the Pindo Collegy, Madrar, should not enjoy the privilege of representation in the Sanato Trible of the provided of the provided of the provided of the stand of the provided of the sanato Trible of the sanatory of the candidate to disharge the dates of the place

The claims of Prof Venestaroya Sastri of the Maharajah's College, Vizianagram, ere equally estimable A Chief Examiner to the University for several years, a member of the Board of Studies in Philosophy, a gentleman of high obstacter and one of the oldest Indian educationists of our Presidency, he is, egain, emmently worthy of being elected to the Senate The modesty and reserve of the Professor render it highly obligatory on the part of the voters to pay special consideration to his superior claims He does not belong to the class of self advertising puliticians who are auxious to be in every public body. however remote from the sphere of their daily life and sympathies And let it not be said of such a cultured body as the registered graduates of the University, that they can recognise the claims of only those who cry londest in their ears and approach them through all the possible channels of personal anfinence

It is a matter for regret there are only two scale open for election, for we need hardly say, there is another very deserving can didate in the Hon Mr Y S Sriniyasa Sastra. It will not be peasible for us to maintain that his last term of office in the Senate was distinguished by any signal services in the cause of University education in Southern India We are not even prepared to bestow any commendation on his recent frustrated attempts to nontinue to burden the one year L T course with such a enbject as the History of Education But his dec ded ability and past educational experience entitle him to exp et at least one more term of oilles from the registered graduates, though the path of nomination seems to be quite easy in bis case. It was actually declared in high quarters that he was nominated to the Legislative Conneil itself as an educational expert

We have only to edd that nothing short of some real service, during the first term of office, should qualify a person for a second election, and judged by the test, we ere afraid Prof P Lakshminersen cannot arge his claims for re-election with any strength or confidence Looking over the proceedings of the meetings of the Senate during the period under review, we notice, the Professor's work se more or less negligible. The path of election must be reserved only for the stalwart champione of Indian interests, whose activity sa apparent at every step, and we leave it to the voters to decide the fitness of the coods date by a study of his record of work to the Senato during the first term of office There should hardly be any necessity for offeriog guidance of this nature to such an colightened electorate as the registered graduates of the University, but for the painful realisation that at least in a few instances its sympathies have been extended in the londest voice and the most anbtle and nawcarred canvassing

MATHEMATICAL RESEARCH.

THE NEW HARDINGE PROFESSOR DE. YOUNG'S INAUGUSAL LECTURE.

The following is the inaugural lecture of Dr. W. H. Young, the Hardinge Professor of Mathematics, before the University of Culcotts. His Excellency Lord Carmicbael was in the chair.

Your Excellency, Mr. Vice-Chancellor, Members of the Syndicate, Members of the Secate, Colleagues, Students:

It is, with great pleasure that I address you to-day in my new capacity of Hardioge Professor in the University of Calcuts for I feel that it is at your wish that I am here, and that the purposes for which I am come are such as must commend themselves to all who have at heart the intellectual future of the Jodian peoples.

It is no accident that the chair of which I have the distinction to be the first incumbest in named after H. E. the Viceroy, and you may be acre that in affunding my our sympathy and help officing my term of office you have the bighest sunction for doing to. And your presence to day among us, Your Excellency, is at once one more token of the kindly interest you are known to take half the conserns the welfare of the people of Bangal, and an official recognition of the importance of local Government attaches to the progressive daralopment of this University.

In recent year, moreover, more especially since the creation of the now department over which Sir Harcourt Butler presides, the Government of Iodia has been at posical so show the loterest it takes in the higher forms of intellectual activity by coming to the floancial assistance of the Iodian Universities in the matter of research.

I use the words "by coming to the financial saistance" advisedly for va are all of a here aware that, at Calcutt at hast, the morement in favour of reserved chairs have been pressed from within the University. And to refer to a personal matter, it need be no secret that my presence matter, and the property of the pro

If sofficient foods can be obtained for the aquipment of the University and for the new buildings which will be required we may then hope that in the oot distant inture the University of Calcatta will take rank among the great Universities of the world as a place where learning is pursued for her musske and not merely for the rewards the may

heaton. The gulf which has been felt to exist between the ideals and aspirations of the between the ideals and aspirations of the best ladian thinkers and Fundits, and the Indian Universities at they have been up to the present will then in all rescoilab have been bridged. As regards my own selence treated as it must be there need be no controvery. All, whatever their official position, whatever their political leading, whether they be Orientals or Europeans, Hindoa or Mahomedans, may without arrivers peute in furthering the development of mathematical learning here in Calcults.

THE OPTIMISTIC SPIRIT.

Among the letters I have recently received which have referred to my acceptance of the task which has been cartusted to me in this University, two have struck me specially. The one suggests that wonderful consequences may follow from the creation of a school of mathemitical research in India, and expresses the view that I may find in lent in the indiam mod as instrument on which I may, really play with effect. The other writer, "What is interesting experience you will have in the contract of the contract

The first attenance is that of an English physical-chemist, the latter that of an American makes chemistration. In naither of them is there say found that presimins which mp he traced among the mathematicians of Europe. The one is at work in one country—the American Far Wet—the other one new Science, concerned with matters, being the same country in the period buman ken. Both then have being and difficulties to encounter, and the same country in the same continues of the stark layer noderishes. But both we then there difficulties an incentive to exertion and an omes of access.

And indeed, are not difficulties for the most part to be regarded as forces, bidden or manifast, which, like all the forces of outone, are, even before man bas learned to what percisely they consist, at the service of him who coonlogly nbervest their working?

Let me semments same at thom. I can here as an Hagilahma, no Baropea, a decise of the West, one who has lived for half a century with mut any personal acquisitance with your accient Eastern critication. However careful may be and requisition with your feelings. On thoughts, and requalities with your feelings. On thought, hand precisely because I am not one of yourself-semand have not grown up a mong you, it will be cause

for you to accept guidance from me. Pressely because the miduce in which I have lard his been to difficult from your, and I likely to him a maniferation your, and I likely to him a maniferation of serioument cannot be but atmosfarm, and you will have the bearfs of my first supersiones. Likelements in chemistry, homen data are most fruitful when they asseed.

f come from the tamperate northern zone, and I am precluded from the azarcise during the whole of the scademic year of a continuous control in the school of mathematical thought and research over whose labours I sin called upon to preside, I see in this fact an advantage for me, but I ace also in it an advantage for you. A plant too closely watched, too carefully nortured, will nevar be a hardy one, and it is not for the purpose of presenting you with the cut flowers of mathematical research, gathered under a cold northern sun, that I em hera. My task is not even that of traveplanting to this sub tropical clime a slip from one of our own northern flowering plante The Tree of Knowledge of the Workings of the ffuman Mind is tadigenous to India, The study of mathemetics is a plant belonging to the same family and its seeds have come to us from you Pailosophy has been your study of predilection from distant ages. Marrellous as are the processes of Natore that are going on around jon it has mover been their study which has most attracted you

lodas is the home of pure thought. In the power of estration you probally naturally sceles I is not well that we should be always hars to help you to do your mathematical thinking More than one English University is sufferlog from excess of guidence, if not always go dince of the night kind.

MATRIMATICS AND THE ISSIAM SEN

But it is difficult, I som told, for an Indian bimself to work in his conviousment. I shall indeed be successful, one of my French mathematical friends writes to me, if I succeed in groung an active interest in methamatical research among persons appead to the birse of an Indian sun

If there be truth in the objection—the validity has been denied to us—I might say that soom find that enforced tolerraption; such as the same mouth series in Clouder, such says the state may not be such that the same mouth series in Clouders work or an incontrate for the fifth and great to the same that the same truth says that the same times to the same that the same times best pursued by fits and testing are some times best pursued by fits and testing to the same times that the same times the same times that the same times that the same times that the same times the same times that the same times the same times the same times the same times that the same times the same times that the same times that the same times the same times that the same times the s

But I would urge that in easunce also this climate

mey welf be to the Indian of the nature of an asset rather than a drawback

Your Indian son keeps indust the races which inhabit ladis superate from the rest of the world. But by so doing it must end by echieving for India its intellictual independence.

The peculiarities of your climate are to you what the alser streak has been to us changes have come and gooe, but the Englishmen has remained for ages different in important particulars from the inhabitant of the neighbouing contrnent. If moistion had at first its disadvantages, these hare nearly all passed away while the adventages have remained to for you the sunt hilatron of distance will have still more striking effects and India may soon be nearer to Europe than London a few centuries ago was to Paris Bot you will remaio findien You can nerer be European With you thought and action can never take precisely the same form as with ne. If you are true in yoursalres as d to the highest ideals of your greatest thinkers, India will add its own peculiar elements to our best curlisation, and in Isarping and in particular in mathematical science we may expect from you pontributions to our knowledge characteristic of your race and clime This is not the time or the place to discusa the question as to how far the University of Calentta se ripe and its students fitted for mathematical research One difficulty has however been indicoted to me It lica to your examination system which you have borrowed largely from us I am atsered that the mode of selection it incolves is one which does not give sufficient prominence to the qualities of indapendence of judgment, orginality of conception, and fartility of imagination which ere an important for success in creative mathamaircal, as welf as in the finest literary, work

If this be true one of the results of your system bas still been that it he produced men wise enough and enhightened enough to desure to see here school of reservice and it will be there sime as it must be mine, to seek, if need be, so to modify your system as to encourage these more hardisar gifts, gain which your great national poet has discuss that the Bingali may process to an ommutatives that the Bingali may process to an ommutative that the second process to an ommutative and the second process to an open second process to a second process to a

I will not, however, dwell longer on angested difficulties nor will I confide to you others which I may have already fell—more especially as I wish to say something to you to day about mathematics staeff and the possibilities which me themsis cal research offers.

In the first place I would ask you as I would all would be mathematical students not to attach too much importance to statements that mathematical research is extremely difficult.

It is no doubt true that in a cortain sense we nay with justice art that the climate of India is extremely hot. But just as in India there are many climates, and desirable products are in to be found in very different climas, so mathematical research is not one but manifold, and estimate employment to very different kinds in abulity.

WHAT IS МАТНЕМАТІСЯ?

It would be well perhaps if I develop this idea a little in detail

But fare what is mathematics? It is, as I have already stated, a sensor of pure thought, one mid-ined stated directly concerned with the phenomena if the universe around us. The intagers, it has been said, were given to as from above, but man his made that tast. I am only, you will see, her a specific of the applications of mathematics, for example those to natural excence and in statistic. Nor do I foreget that, if you will allow me another smalle, some in the most beautiful parts of the mathematic edition have been planned by architects who have drawn there imparation from Natura baseds.

On this structure, planned and executed by man, man is still at work, adding to it, beautifying it, remodelling it Its dimensions are an vest that evan the most anterprising of its devotess are acquainted with nuly portions of it, and it is here and there very incomplete. The interest is concarned in fact, and has been at almost every spoch, an the progress of the building, and on the modifications which the plan is constantly undergoing, even mora than on the barmony of its several parts. We are constactly engaged in training naw workers and new problems of construction are constantly presenting themselves fne our consideration. Occasionally part of tha structura aiready reared is found to rest no insacure foundation and has to be undergraned. An one pays much attention to more brick-making and the discovery of a new kind of material attracts lattle attention unless discovered serviceable for the completion of an old or for the laying of the foundations of a new portron of the building.

foundations of a new portron of the hulding.

I have dwelt on this analogy because I think it
brings out at once the variety of mathematical
research and the necessity for its being directed to-

wards au end.

It snables us also to see how essentially defective a school of mathematical research must be when it is traumelled by a hard-and fast examination system. We cannot allord to concentrate and at-

testin on one kind of training only. A mere knowledge of the existing edifice, or, what alone as possible of a portion of it, will not make a wraker, nor will a mere knowledge of technique suffice

To have read a few text books, to be able to carry out certain mathematical processes, does not make a mathematician Aay, even the possession of the power of ahtamog a new result does not If we reflect on the almost characterisa him interminable series of properties which some of the atmplest configurations possess, it becomes clear that by sufficiently complicating the configuration we can be sure of having one which possesses properties not bitherto stated and not ton difficult in be discovered by known methods. In the case of formula, the more complicated they are the greater the number of equivalent forms into which they may he transformed. Ability to perform work of this kind involves some acquaintance with mathematical results and processes-an amnust rudeed which roughly corresponds to that which is required in a written examination,

Investigation such as these would however find with difficulty a place in any mathematical periodical in the world.

What wask are we to expect from nur workers and how are wasto train them? Let me leave my analogy and attempt to make a list of the kind of workers a great school of mathematics requires:—

(1) Mathematical biographers. Thosa who devota themselves to the researcher of a particular mathematican of the present or if a particular mathematican is the present or if a pair generation, who examine in detail the principles such a mathematican is in the haint of employing, the influences he has nodergone and the new ideas and processes he has introduced.

- (2) The mathematical historian, who traces the development of particular mathematical concepts.
- (3) The mathematical logician, who subjects the mathematical structure to critical examination, who scrutinises proofs and exposes their fallacies, and anisativities satisfactory noes for them.
 - (4) The mathematical philosopher, who concerns himself with the theory of the mathematical tools, and still more than this, with the general principles of each particular branch of the subject, must be made and the subject, however elegant they may he, have no unterest, unless they throw light on the theory.
 - (5) The mathematical statisticism, who, for example, considers in detail the more important

mathematical theorems with apecial reference to the character and classification of the various proofs that may be given of them

(6) The mathematical chronologist, who interests i used in the periods of time at which new diess have appeared and new theories have arisen, and writes the history of mathematics from this point of view

(7) The mathematical pedegogue, who sesks to obtain new and, if possible, simpler proofs of old results

(3) The melnematical literary man, who aims at popularising the more beautiful or the more neeful or the more casily understood portrons of the applied of which he treats

(9) The mathemetical empotators and com

mentators of the classical writers

(10) The mathematical archemiograf, who seeks for the origins of mathematics in historic

ocerenin pra-historic times

(11) The methematical constructor, who interests himself in examples which throw light on known theorems or serve to show within what

limits theorems are possible
(12) The mathematical translator, who translates from end into methematical language, the work of the esteonomee, of the physicist or of other searchise

(13) The mathematical eggs cloped ist, whose obtained is to expose the state of a subject at a pasticular epoch with special references to the persons to whose work the chief results of the subject are disc.

(14) The methametical journalist who makes it his business to he acquesisted with and to record from day to day the new steps taken as his science.

(15) The mathematical writer or author, properly so called, whose work is creative in tha astrower sense of the term

I do not, of course, sry that all these walkers are necessary or that they all earts may probably an attendant with which i sm acquained. More over, the insee of during hatteness nos kind of work seed another is not always clearly defined. To become a great nathematican it will be necessary and the second of the second of

old results end examples illustrative of old theorems has not infrequently lid to striking additions to our knowledge. Generally we may say that to be a saccessful work of any one of these types at will be en advantage to be equantled with the results and the employ the methods of other classes of workers.

But even a person who is concerned with but one of these kinds of work is helping on the case of learning and is entitled, to a greater or less degree, to the name of mathematician.

"GRADIA AD PARNASSER"

What steps should a student take who washes to become a mathematican in this sense? That he must reach had telps of advise older worker may be a student of the most reach that telps of advise of the most reach that the student of the most reachest that the student of the most had been compared to the student of the most hard student of the most hard say access not only to the current mathematical perioducial and the proceedings of mathematical perioducial and the proceedings of the process of the

How far will not book be of service to hus? Only in mora they seek to wood of mon to whom there subject in a lung subject, oness which they have themselves worked, one which they have themselves assumited. Otherwise the testion is highly to be a case of configuous rather than a cause of enlighteenment. So far from hears a good to the student, it will serve at most are abook of references to the expert. And even the best test books are seen one of the state to the state of the server of the server.

Le progret des seiences send unutiles les ourrages quientels plus aid a ce progres

But in the case of mathematical text-books it is etall far from possible for us to add i-

Commeces outrages as serrent plus a grand chose, la psunsus crost de bonnejo, qu'il a n'ent jamais serza a viene ells les meprisest, pour pen qu'il sy trous quelque ides irop surannes, ells en vis

Indeed to speak of what I know, mathematical test books which have once taken rote obtains as immense authority with the young students, as well as with that teachers, often go through obtain after edition without any approachle after study, and they years after their first appearance are reproduced in reslect type for the benefit of the bland.

Reports on the state of science at a particular rpoch are always useful, more especially when they hear the data of their composition, and are work of competent methemsticians. Litely, bowever, work of this kind has too often been entrusted to euperficial sod partial writers, and the forfing has been growing that it is now only safe to regard each reports as representing the anthor's knowledge and opinions.

But how may the student hope with the least outside help to obtain a grasp of the branch of mathematics on which he is interested? There is one method which, though it may be long, is suru to succeed : let him study the history of his subject, not however in the works of would he historians, but in the works of the writers thamselves. Let him try himself to be the true historian of his subject, and seek to make clear to himself not how great, but how inevitable, each step in the development was and acquire in this way the conviction that he is worthy to follow in the footsteps of his predecessors, that ho too is a mathemeticien, he too hes been touched with the divine flame. How does what I have been saving hear on the question of eareers? How may you trein yourselves to be great teachers? For many of you here already exercise, or hope to exercise that profession. Only if the subject he a living one to you can you hope to make it a living ooc to your heavers. You must yourself he a worker.

How will it benefit the employee in an office, the Government official, to have been a mathematical worker? He will have acquired the hebit of thinking clearly and incisively, of going straight to the heart of things, and of brushing saide all that is accessory. He will have gained the conviction that life consists in progress, that every problem has its solution, that every difficulty has its uss. He will have ocquired a reasoned coofidence in his own powers, and some knowledge of their limitations. Familiarity with the mode in which mathematical theories have developed carries its own lessons. We learn to look below the surface, to keep an open mind, to realise the Importance of the exceptional and even to welcome it, to see in one difficulty the means of conquering another, to appreciate the power of suitable conventions.

Odois was only a young student—be died in a deal at 22—when he saw in the work of Lagrange the Anademental county of group, whose instruction has resolutionist whole domains of mathematical thought. The apparently trivial attempt of Cauchy to obtain as assigned as differential co-efficient at a point where the fence is include, led him to, was indeed almost limit equivalent to the discovery of the great theory of Fanctions of a Complex Veriable.

In the conflick between authority and innowinin the former er arraly had the last word. The Theory of Fonctions of a Real Verilable, which was aff that ignoral and of ast purposes, by the more influential mathematicians of the day, a subject which may be said to have taken its rise more then a century ago in what were regarded as heratical views on the nature of a function by one who was as little of a precision as Euler, is now carrying all before it.

The use of the exceptional is one of the leading ideas in the work of Weierstrass and his popul Mittag. Idler; but only in the Theory of Functions of a Real Variable and its applications has its full importance hegun to be realised.

Here is my own under-graduale days ench an aperianced teacher as Edward John Routh used to argon: "This baing time always must be from in the limit." Precisely in the fact that this is not there, and in the difficulty that fact that this is not troe, and in the difficulty that fact the accrued, we have found means of studying the proporties of functions of the most general character and of classifying thom.

The necessity for conrention and the power possessed by in an actorium not ils we nod order as well as of progress, are strikingly illustrated by the very axiatence of nethematical sustysis. Without convention the idea of number does not rare include that of commensorable or rational comber, to which Sir Oilier Ludge, in his record interesting address to the British Association as Birmingham would restrict it, thereby destroying at a word the greater part of mathematical anisce.

By anitable conventions we have conquered the impossible and disarmed the infinita.

For all of m, whether mathematical workers or unique mathematical studies correspond to an efavation of the mind. Mathematical concept to an efavation of the mind. Mathematical concept to the the matterpieces of mails and of ort are to the material mas. They represent the eateren degree of perfection of accurate thought of which the human mind has as y at thown itself or pable.

As we listed to these pure harmonies and contemplate these ever-changing and heauteons aisions wa shall be abandoning ourselves to no meraly senances plassures.

We shall be taking to consister impression of conceptions which seen in their rudimentary forms, have at the turning points of the history of the human mind, been a source of impiration to the greatest physicists, the broadest humanists, to the most profound philosophers

Wa shall be sharing in the voly life of a accence which is becoming on indispensable to the modern world that the chief danger to its beppy continnance lies in the internatit excites in those who would exploit its conquests

And our rapt devotion will be bestsuing the time when persons even the crowd of thinkers will assism our science to be of all the more fitted to receive and to retain the crown of human learning

UNIVERSITY OF ALLAHABAD

CONTUCATION ADILESS

OF THE

HONDLE DR SUNDAG LAI, VICE-CHANCELLOS Fellows of the University, Ladies sod Geotlemen;

It has been a well established custom of the University to conclude the function which has brought os together to-day by sa address which is expected to present a chort resume of the work done during the year, and to deal with some of the more important aducational topics which soferest on But closely essociated se the Vice-Chencellar of an Iodian University 18, and must be noder its present coretitution, with his collargues in the work of the University in ell tis departments, it is by un means easy for him to put his finger on soy important poset in our educational policy in which his views are not known to them or their viewe to him. Vary little, thereforn, of what I may venture to say to dey can possibly be new or aniamiliar, or not alinedy considered by you at some time or other in the course of the performance of our ordinary duties as mambers of the University I propose, therefore, in refee only to some of the main aspects of one work and to sudeavour to present to you, what may possibly interest you, -ibe impressions of one who, though without the practical asperience of a teacher nr administrator, has had the privilegn of having been as sociated with you so long in the work of the University and who is keenly sutersated in the educational advancement of his countrymen

Before, however, precaeding to do so, I think it is my duly to bring to your unitee the less that it is my duly to bring to your unitee the less that the Uovramity has settemed to the course of the year by the death or retirement of some of our prominent co-workers. By the death of Bat Ram Sarao Das Bibadau we have lost the valu-

abla services of one who belonged to that group of Fellows who were appointed by name by the Ant by which our University was cateblished to 1587 He was the only surviving member, on the hat of our Ordinary Fellows of this year, of that ber I of devoted workers who met oo the day the University was opened and to whom it is so much indebted for the care sud thought with which they promoted its developmant in the earlier years of its emistance. He was a regular attendant at all the mnetings of the Scotte and the Escalty of Arts and his acholarship in Sanakrit was recognized by his eppointmoot to the B sid of S ndies for that language. Ha would have very fittingly occapied a prominent place in the newly constituted Paculty of Commerce had he been spared to eerva the University longer We have lost enother echolar of great Jearning, eminent estamments and high promise in Professor B C. Norman, The Board of Studies in Sansket, which has been rether onfortnoste in recent years in losing the services of so many devoted scholars, has lost one more of sis indefetigable workers By the resignation of that eminent acceptist, Dr Imme and the death of Bay, Dr Hautley, the Board of Studies in Biology has lost two of its most resloce and ship members The promotion of Mr Jeonings to a higher and wider sphere of activity, err, to the office of Director of Public Iostruction of the sister province of Bihar and Orises, is a well deserved and fitting recognition of his valoable services The many Boards and Committees of which he has long been so promineot e member will no longer bu able to benefit to the came extent by his sound jodgment, echolarship and tect, owing to the call on his time which the duties of his new office most necessarily make But it is a consolation to think that our loss will be the gein of a eintee province, and that his experience will be et the disposal of a younges University which is expected to soon come into existance Five other Fellows have had to resign owing to their departure from there provinces. Two of the most promucent and devoted mambers of the Univeraity whose names you will find no almost avery Board or Committee in the University Calendar and its migutes, I need bardly say that I refer to Meesre Ward and Cameron, have just cossed to be mambers by efflux of time. I am glad to anonnace that His Honner the Chancellor has been placed in rennmineta them and that we shall continue to have the benefit of their scholarchip, experience and devotion to the brat

naterests of higher education

But while we regist that the University bark

will be deprived of the services of so many experienced bands, we have, on the other hand, the prospect before us of having its craw reinvigorated by younger recruits, the majority of whom are to be selected for us by another sgency. You will be glad to hear that Hie Hononr the Chancellor (the Hon'ble Sir James Meston) decided to throw open all the foor elective vacancies available under section 5 (2) (n) of the Indian Universities Act of 1904 to election by the registered graduates of the University, as his predecessor to office. Sir John Hewett, had done last year in similarly throwing upon the unly vecancy of that class available in that year to bu filled up by election by the same body. I heertily welcome eor old colleagon Dr. Satish Chandra Benerji on bie coming back by election to bis place among the Ordicary Fellows of the University and look forward to the pleasors of walcoming the new members as soon as the elections are over. I believe I voice the seeliments of all registered gradoates of the University when I say that they are is dehted to Ilia Hosour the Chancellor for assigning eli the available vacancies of the year in alcotion by them in spite of the heavy loases sostaleed by the University to which I here already referred.

I have alleded before to the establishment of the Faculty of Commerce which was decided upon and sacotioned by the Government in the year neder review. I wish the University avery secceas in its new field of work and the new Pacelty good lock and prosperity. While on this sebiact, parmit me to invite ynor attention to a very great practical difficulty with which we are confrocted by ressoe of the meximem number of Ordinary Pellows of our University being limited to seventyfive. It is imperative that we should have, as soon as possible, n sefficient unmber of experts in commerce on the Sensis in assign them in the new Faculty. But this, under our present constitotion, will only be possible as everlable vacancies will occur in the coerse of the noming years. The effective organisation of the new Facolty will thus he delayed indeficitely. The same difficulty occurred in connection with the Faculty of Madicins, the establishment of which was decided upon by the Oovernment in March 1906. Ac the buildings of the Medical College at Lucknew were not ready, the concideration of the matter was not tekao in hand till 1903, whan definite proposale for the amendment of the University Regu'ations processry for the cetablishmans of the Paculty were laid before the Syndicate. The establishment of the Pacelty was sanctioned in dos coorse, and the Facolty was constituted, but

it is only in the calendar for 1913 that the Familty appears for the first time with the foll number of medical experte colected from among the Ordinary Fellows. The slow process of putting on the Sacate the necessary number of experts as vacanies occur very moch refards the growth of the new Faculty. When preciding nunr the Convecation of November 1908, the Hnn'hle Sir John Hawett was pleased to observe in the course of his address as follows :-- "The view that I would nrge is that the Indian Unispresities are essentially the Universities of the people, and thet, if they are to fulfil their purpose, they must provide for courses of instruction suited to the many-sided activities of the people, the development of which can elone be relied on to ensure continued prosperity to the country. I wish to see the University extend its influence over other forms of education with which it has now un concern. Holding this view I think it s pity that the Faculty of Eogineeriog has been sholished, and that the University does not extend its help to the Thomason College at Roorkee. The reselt of this indifference was that at the sittings of the Industrial Coofereons at Naisi Tal last year, there was a very pronounced feeling of opposition to the auggestion that it would be desirable to secure the affiliation of the Technological Institute, when calabliabed, to the University. I believe that a somewhat similar feeling has led to the datermination of the Agricultural College to he a thing spart from the University," Reperience has shown that the meaimum limit of 75 prescribed by the Act rendere it very difficult for ma to saised the acope of the University by taking up eew spheres of work, and I think it is high time that the limit was raised to 100, as is the case to the Universities of Calcutta, Madras and Bombay. It bus been suggested that the difficulty might possibly be solved by a careful revision of the list of Fellows. It most however be remembered that apart from the delays involved in carrylog out soch a anggestion, thie University is the second largest in the Indian Empire in ares and population, that it comprises collegas se far distant as Nagpur, Indore sed Jodhpur, and that it is no less important to secure un its Senate a dua representation of its federal colleges sod of the saveral States and interests with which the University must he in close touch to snaurn its effective working. It will of course be not necessary to fill up all the vacancies at oeco. But power should be given to do so, it being left to the discretion of the Chancellor to fill them ep as

ocesson msy require. If this is done it will also be possible to make up for the dimunsion, by reason of the assignment of five of them to election by graduates of the number of Fellowships to which the Government msy nominate. It will be possible also to even increase the oumber of Fellowships are assigned.

I fear I have detained you too long over orging the claim of our University to be placed in a better position as to the maximum number of Ordinary Follows at may have on the Scoate I will now invite your eltention to another in portant point under the regeletions rateling to the degrae of Barbelor of Arts The grooping of the sebjects out of which candidates for that dagree were permitted to select three and rectawas so arranged that beardes E glimb, which every occdidate must take, be was required to select either a clessical language or Mathematics. es his second schisct, and he had the onfet ered option of selecting the Ibird subject out of several others which were susmereted in the regulations He could, of course, else take both the classical language and Mathematics together, as his accord and third sebjects Under the regulations as they have been now emended Enghah is the only subject which it is nompelsory for every candi dete to take up, the other two may he eny, out of the meay enumerated, at the candidate a choice.
The grouping of the subjects for the exampletion for the degree of Becheler of Science bee also been so sitered as to parmit a student to take up Mathematics, Physics and Chemistry (group A), or Chemistry, Botsoy and Zoology (group B) It has the become possible for a student to take the degree of Bachelor of Aste or Bachelor of Science without studying any more of Mathematica than what is prescribed for the Matricolatinn Examination, or to take the degree of Bachelor of Arts without knowing ony classical language. Thus has been settled an oft mooted sebject of animated debate to which the motion for the change onw adapted was off repelled by e small majority of votes Whether the present decision will be generally regarded as actualscory or not, further experience only can show, but there is one espect of the question which, I think, deserves consideration. Under the system in force before the introduction of Science courses in our Universities, every candidate for the degree of Bachelor of Arts was required to take ap one ot the classical languages as a compolsory subject of study Indian sindents generally took up Sanakrit, Porsien or Arabic The study of Sanakrit onebled them to ubtem a competoot knowledge of Hendt, and of the other two, of

Urdn The gradesies of those days had a ferrly good command over either the one or the other form of the vernsceler. With the introduction of the Science or B coeres as it was called, the classical language was at first dropped after the Intermediate Examinetion A few years later, the bifurcation of studies was carried down to the lowest stage of University examinations. It has oow broome possible for au Indiae stedent to take his degree without knowing much more about his vernacular than what he might have picked op on his mother's lap, and except for the third paper in English in the Matriculation and the Intermediate examinations, in which be is regored as a part of that paper to trauslate from the vernscular auto English (as a last of of his knowledge of English), he need not know the veroscoler et all With the constantly is oreasing number of etedente who go in fer Science and the increase in the number of those who will not take up a cleanical lenguege even for the degree of Bacbelor of Arts, three is a class of our educated youths growing up, who are fer beppier to the nes of English language then in the see of their own vernecelar. One is very often pained to notice in the local Gazette, the comes of persons published by the Pleadership Lummostion Board of the High Court, who ere declared to have passed an exemination in Law which ie held in the English language bet whe have failed to setusfy the Exeminer that they possess the vary elementary knowledge of the vernacular which the Exemination Board maiste opon their possessing before declaring them to be qualified to practice in the Coerts of these provioces It would be a reproson to the adocational system of any country if it was possible for any considerable hody of its educated youths to be brought up ooder it without a decent knowledge of their own vernacular-I recognize that in our present condition g.od knowledge of the English language, which te occessary to give na socese to Western learning sta squances and discoveries, is indispensable, and that all higher education must be imparted to oor colleges through the medium of hughsh, at soy rate, for a long time to come I am also aware that there are considerable difficulties is Sinding a place for the vernaculars in our streadycrowded University carrients and that room can only he made for them by taking out some other part of the course But there seems to me, as at present advised, no serious difficulty in the way of erranging tor e thorough grounding in the vernagular in our schools It may be that we are potting off the nommancement of the study of

the literary language too long in the earlier stages

of our school carriculum. Some time ago a member of our Secate brought forward before us a motion to make the vernacular a compulsory subject of exemination for the Matriculating Examination. The Covernment had however in the meanwhile appointed a Committee for the consideration of the whole subject of the study of the verusculars ie ell classes above the primary stage; so the motios was withdrawn pending the submirsion and publication of the report of that Committee. It is of course evident that little can be done ie a matter like this without the co-operation of the Government, as a thorough grounding in the correct verneculars is more appropriately part of the school course, while a critical study of them, their growth and development from a historical and philological point of view, might more fittingly be left to the heads of the University. I do not know whether any orders have yet been passed upon the raport of that Committee by the Government or whother the matter is sofficiently advanced for a further consideration by the Government and the University. But I hope that the matter will receive the attestice that it deserves at an early date.

in visw of the admirable note of the retrospect of the operations of the year 1912-1913 which has been printed by the Registrar, and is now before you, it is unnecessary for me to refer to any of the matters which have so felly been dealt with by him. It would be sofficient to point out that the efforts of the University and its stillated Colleges, have, dering the year, been mainly directed towards strengthening and Improving their staff and general equipment, and providing for instruction to higher and additional conters. As pointed out to that note, the Agea College and the Maliomedan Anglo-Oriental College at Aligarh have been affiliated up to the M.Se, degree for two years in Zoology and Physics respectively, and the Victoria College of Science at Nagpar up to the D.So. degree in Physics and Chamistry.

This, of course, only repressule a small part of the improvements and additions made by our cations. Online to the great demond for adnisions which has spring up array where a knost switch to the cations of the arrange for the institute of the cations of the arrange for the installation of the cations of the arrange for the installation of the cations of the arrange for the interior of the cations of the arrange for the interior of the cations of the arrange for the arrange additional balling of the arrange for the arrange of the arrange of a few figures. In 1850, in the first category published by the University, the first category published by the University, the first category are arranged to the M.A.

standard is shown as five, and those sfiliated up to the B A. standard only, as four. In 1904, just before the reorganization of the University under the Indian Universities Act of 1904, the number of colleges affiliated up to the M.A. standard is shown as eight and of those affiliated up to the B.A. or B.Sc. standard only is shown na tan. In 1913 the onmber of colleges affiliated no to the M.A., M.Sc., or the D.Sc. degree (and in the case of many of them in two, in the case of three of them is all the three degrees) is fourteen and those up to the BA.. B.Sc. (or both) and the L. T. drgress twelve in addition to King George's Medical College at Locknow and the University School of Law at Allahahad. The nowber of students examined in 1889 was 1839. In 1904, it was 3409 and in 1913, it is 7727. In 1904, the unmber of rocognized schools which sent up its candidates to the Matriculation examination was 110. It is new 209. And it has been my pleasing privilege to have signed 817 diplomas for presentation to-day.

The only part of the University calander which has shown het little signs of expansion is that which cootsios the list of University endowments. The only new ondowment this year is the generous gift of Lals Gaerisbanker, the principal contractor of the University Sanate Hall huildlog, who has founded a gold madal to be awarded annually to the stadent who stands first in the Final LLB. Examination of the University to be called Sir Henry Richard Guld Medal, to mark the earvices of my distinguished predecessor in effice to whose efforts and to the assistance and support given to us by Sir John Hewett we are indabted for our Senate Hall and the Law College hailding which is nesting completion and to which the University School of Law, which is our first effort le the direction of baginning work as a Teaching University, will some be transferred. It is not because the people of the provinces are apathetic towards rducation, or slow to appreciate its advantages, but it is due to the fact that the channal of public charity has is recent times been for many reasons divarted to other directions that our list of endowments has remained almost stationary. In our comparatively poor provinces which have been the subject of too severe and widespread famines within the last decade or so, wa have bad a Reja Uday Pratap Singh whn generously gave away asum of aleven laklis for the establishment of a school at Beusres, and a Raja Balwant Singh, who gave away a similar sum for another school at Agra. The lerge some sohscribed for the Hindu and the Muslim Universities and the handeome donations towards the construction of our own University huildings to which we are in no small degree indebted for nor present ensemme home demonstrate beyond doubt the kero interest that pellic adocation has aroused in these provinces. But the abstract and incorporeal person who only collects examination fees builds examinations and granta its drolomas and certificates once a year does not however appeal to the seme axient to public sentiment ar the living institutions which open their portale to all who enter them to search of knowledge and which also teach and train them It is only since the time that the Colcotta University also assumed the role of a teaching and recearch University, that the larger gitte from the public bave commenced to flow in Our heet thanks are however due to the Government of India by whose generous belp we shall scon be in a position to make a further advance in this direction The Government has already given its approval to the establishment of University chairs in Economics and Modern Indian History out of the grant of Re 15,000 a year made last year, and has been further pleased to express its readiness to establish a third chair for thras years the errangements for which are now under consideration With the belp of the non recorning grant of three lakbeennounced last year and the further grant of two lakha alreedy made we hope to be able to build the University library, the place and derigne for which have already bean prepared by Sir Swinton Jacob, and tha law hoefel which in a very necessary adjunct to our University School of Law, which hea already became elmost self exporting Thanks to the energy of Dr Weir and the members of the eteff, the very marked and bigh standard to the percentage of successful candidates (specially the number of these placed to the first clear) bea already demonstrated the advantage of the concentration of legal aludies on the lines laid done by the University Law School Committee

The Regusters has rinch a warning note as to the fotion of the Gornel and confusion of the University, and feers have been constitute as present that with the catabolishment of the two proposed nater Universities at Aligarh and Honorre our Gostenia position may be acrossly Horized. My according to the state of the second position of the secon

their children to schools, and had to rely for all progress on their numided afforts slone have now hapmiy changed Everywhere the paonle are clamputtog for mora schools and colleges and are freely belging the establishment of new maintuitions and the improvement of existing nace Speaking personally for myeelf, I do not shere the apprahensions that have been expressed, and though I personally abared the opinion that it would have been a great advantage if the copporters of both these movements hed united in supporting one great commun institution, I racogmus that a University such as nors conuct meet the special needs of either of the two great communica of India to the matter of raligious education, nor can it evoks the anthonism which such of them excites in the minds of those for whom they are primerily intended. I am convinced that on the whole the creetion of these Universities will deepen the interest of the public to the cases of higher education and will direct the chaonel of public charity towards it, from which all Universities including our own will, I hope, benefit The greet thing for on to recogniae and remembar is that though in our present state of education the State Universities of India must cootinue for a long time to be in a great meants federel Universities exercising their infinence over large ereas, they must like the London University, on the lines of which they ware established, steadily continue to sesema more and more the fuections of a teaching University, the ideals of which, high educational authoritias combine la nigieg, forter in a high degree the progress of knowledge and restarch to all its higher branches. The advantages of a wall equipped reeidential University where ite regular aindante are " abla to work in totimate and constant association with their fellow stadents, not only of the same, but of different Faculties, and also in close contact with their teachers," where the students and teachers are "brought together to heing intercourse in the daily work of the University," and whein "from the time the ander graduate enters the University he should find himself a mamber of a community m which ha has his part to play," are general ly well recognized It is in this direction that wa most progress in the years to come. For the present however we can only hope and audeavone to realism many of the advantages of a teaching University in the colleges which era affiliated to no, and in most of which the residential cyrlem has been eteadily growing Indeed at in a metter of satisfaction to reflect that the coringes affiliated to our University

ainff."

are becoming more and more of the residential type. It is through them that we can at present largely promote more efficient and higher teaching, and halld up the character of the yeaths who come under the influence of our University.

The expension of our colleges means of course the providing of a stronger staff of she and experiment professors to help and graits that students of all classes (section and joins althe) both in study and research. The adventage of placing even the justic classes under the charge of distinguished teachers has been recognized and I cannot in this connection do better than quote the views of the Royel Commissioners who have secondly submitted their final report on University Education in London. They observe as follows:

"Teaching will of course predominate in the earlier work, and research will predominate in the edvanced work; but it is in the best interests of the University that the most distinguished of its professors should take part in the teaching of the under-graduates from the beginning of their University career. It is only by coming into contact with the junior students that a teacher can direct their minds to his own conception of his subject and train them in his methods, and hence obtain the double advantage of selecting the best men for research, and gatting the best work out of them. Again it is the personal influence of the men doing original work in his anbject which inspires belief in it, awakens enthusiasm, gains disciples His personality is the selective power by which those who are fitted for his special work are volunturily salisted in its aervice, and his individual influence is reproduced and extended by the spirit which scinates his

While admitting the desirability of making better provision for higher studies and research in our Universities, friends bave sumetimes asked,- Will the tudish students go in for them?' I feel to besitation in answering the question in the affirmative. Other provinces, where Universities and colleges name into existance much earlier, have brought unt distinguished scholars and scientists like the late Raje Rajendra Lel Mittra or in the present times such eminent persons sa Prof J. C. Bose, Dr. Bhandarkar and others. There is no reason why in the territories comprised within our jurisdiction with the kindly influence, succeptagement and example of emirent teachers we should tag hehind. I firmly believe that we only want the necessary facilities and opportunities to do

our proper chare of work in all departments, thus far our bupeas in this uniter are correct and well-founded, is is for you, graduates of the University, to demonstrate and justify; it will have you alone to prove that the accient hand of Bharataresta which gave birth to swamp profund abbolars and thinkers in ages gone by still rations its vigorous intellectual furthly and that her soon, forefered and nonrished mader the parental care of a great and beings of the the parental care of a great and beings of an ear still maintain the conditions of the care and fame of the lead of their birth.

UNIVERSITY OF MADRAS:

WELCOME ADDRESS TO H. E. THE VICEROY,

May it please Your Excellency :

We, the Vice-Chancellor and Kellows of the University of Balars, desire, in the first place, condisily to welcome Your Encellency on behalf of the Sonate, Boards of Studius, graduates and under graduates of the University, and to take opportunity of expressing our abhorroom of the distantily outrage sgainst Your Encellancy last December and our thenkildness for Your Excellency's providential escape and restoration to bealth.

We have next to thack Your Electhecy for hiddy consenting to bonour as by laying the foundation-atoms of the New University Library and Buildings. We see well aware of the interest Your Electhecy has always abown in the cause of University deciation in Indias, and we acknowledge with gratitude that it is owing to the suitghteend thereafty of Your Excellency's Gorernment, giving effect to the gracious wishes of His Imperial Majesty the King-Emperor, that we are in a position to take this important step forward in the development of University work.

The new labrary building is intended to house the University Lubrary which has been acquired and the University Lubrary which has been acquired and the property of the Lubrary of Contral Mannarders which has the Lubrary of Lubrary of Lubrary as hich has the Lubrary of the Contral Mannarders which we have the Lubrary consisted of three collections which eventually came into the possession of the Colored Markaras, the Surveyor and Archeologist, in the troubled years at the end of the eigheant label has beginning of the bulkeredth centuries, snother

formed some years later by Mr. C P Brown, the well known Telleys Stebdar of the Company's Service and a collection received from the East Idola House after the dissolution of the Company The Library has been colarged by extensive pur chases in recent years and will greatly facultate the higher studies in Bankirit and the Paxelina hounger, which the University is seeking to

The other University buildings are satended to provide accommodation for the direct traching in these and other subjects which the University is undertaking with the resources placed at its disposal for that purpose by Your Licellency's Government.

Oo on occasion such as this we may, perhaps, be permitted to refer to the general progress which has been made by the University since the passing of the Universities Act of 1904, the revision of courses and issuing of standards the institution of Hooours Courses for under graduates, the Mates culation of students whose School Leaving Certs ficates have been approved by Heads of Colleges and the increased interest to the Vernaculars which has followed on the introduction of Verna culae Co aposition ioto the Intermediate Exami nation Of even greater consquence are the closer relations which have been established between the University and its Affinated Colleges, the encoor agement which has been given to the hostel system and the development of a fuller college life, and the great improvements in stell equipment and general efficiency, which, under the inspection and guidance of the University, have been effected in the colleges-improvements which, in the case of colleges not under Government management, have severely taxed the resources of the mesonary and other managing bodies, in spite of the generoes manner to which Government has come to their constance.

In one respect, lowers, we have been feet fortunate. Annex as we are to pecuade the deterlipment of higher stosies at the University centre, we cannot but regret that for a private focusity, we cannot but regret that for an private focusity and the state of the sta

secution of the work we have been invited to

A DONATION.

The presentation extramely having concloded, His Excellency the Chancellor Landed a note to the Vice Chancellor, and shortly afterwards all present were grainfied to hear an anonuncement, to the effect that he was commanded by IL B. the Chancellor to anonunce that the Hon bla Mr P. Banaray suneray, Hember of the Imperat Lege Battan Council, had made a donation of Br 10,000 towards the encouragement of the essentific study of therators on the Telespul pagings

H B THE VICEROY'S REPLY

His Escellency the Viceroy before laying the

Gentlemen — One of the most honourable prerogatives of a Vicercy is the signity of the position he holds as Chancellor of the Culcuit University, but it a diagraty which carries with it no small sense of responsibility, for a dways feel that the Universities of India represent but quotessence of Indias cultivated including the that their rereded atmosphere, the development of a critical fieldly before which all the control of the complete of the control of the control

Now will onderet and then that I appearable rely heighly the great honour you have done me in asking me to take part to this earlier me, and it can essure you thin, whistever may see my fortuning as a ment of learning, I all the greatest me to the second of the second

THE INCCOLAR GRANTS

It was a source of good cathrication to my Government has has he at 1, set to make here in Government has he has he at 1, set to make here grants with the object of crathriday you to make a definite step for crant, and it congratulate you upon the decamon you have taken for the provision of a smallele helver, together with rooms for a smallele helver, together with rooms for make the constant of the constant in the constant in

and I gather that you are also alive to the importance of securing, for the arrangement and conduct of such teaching, men who can claim to be specialists in their own various subjects. I have listened with great interest to the account you have given of the progress you have made in various directions.

ACTIVITIES OF THE UNIVERSITY.

The Act of 1904 widened the scope of activity of the Universities by imposing upon them teaching functions, in addition to the examining functions which they had possessed before, and the objects on which the University of Madras have proposed to spend the liberal grants made by the Government of lodis appear to be well-devised for the purpose of carrying out this intention. The care you are bestowing upon the coltivation of the remaculars is a noteworthy feature from which much may be boped, and I troat that the new organization of Oriental study will meet with successe. The acceptance by the University of the Secondary School Leaving Cartificate is selculated to foster the best interests of higher school education by permitting elasticity in the courses and involving a less rigid evstem of examinations.

PRIVATE LIBERALITY.

Speaking generally, what you have told most fits work you have been doing fills me with hopfor the future and effords a gurantee to any gentlemen who is moved by your appeal—an appeal which I beartify andorse—and of a serponse to which I am very glad to see the commencement and comes forward with beorfattons to your University, such as these which have recently been so liberally bettowed in other Presidenties, the third presenting will not be abound or wasted, which have recently been so liberally bettowed in other Presidenties way for the development of higher education in Madras.

In proceeding now to lay this foodstion stone, let me thank you for the extremely kind welcome you have given to Lady Hardinge and myself, as well as for the knonur you have done me in it vitleg me to undertake so pleasurable a task.

THE STONE LAYING CEREMONY.

H. E. the Viceroy, H. E. the Chancellor, the Vice-Chancellor and two other gentlemen preemi on the dais then proceeded to the parilion where the atone-larging carmony was to take place, Here were waiting Mr. Montagu. "Thomas, the scribited, who is responsible for the design of the new buildings, and Mr. J. J. O. Reilly, Escutive Engineer in charge of the swort.

THE INSCRIPTION.

The stone bears the following inscription:—
"This Foundation Stone was laid by His Excolleney, the Right Honourable Charles Baron
Hardings of Penshurt, r. c, c.c. n., c. u.s. v.
a.c. M. g, a.c., e. n. y. c, l. s. c., Viceroy and
Grastnor-General of India on the 25th Novembor, 1913.

The following is a full text of the Address presented to H. E. the Governor of Coylon and the Depandencies thereof in November lest.

May it please Yoar Ercallency:—The North Coylon Educational Association desires to take this opportunity on the occasion of its annual general meeting, to bid Yoor Ercellscoy and Lady Chalmera a hearty welcome to Caylon, and to congratulate you upon the assumption of yor high office.

2. We have hand with great pleasors and with sincers approval of the purpose of your Government to establish in Colomboa University College which will set a worthy estandard for higher adocation and which will materials a high edges of efficiency. We arrest that in the near degree of efficiency. We arrest that in the near degree of efficiency. We arrest that in the near the near that the near that the near that the near that the problem of higher adaction for Copyon will near the solved till the Colomy has the own well-equipped University.

3. We dasire to express the bope that this Cuiversity Callege will be conducted on Eastern lines, thoroughly adapted to the ceeds of the Ceytonese. We would survestly ask that those in charge of the institution be instructed to maintain this feature, and especially that adequate facility be given for the study of the creacular—Tamil and Sinhaless—and Oriental clauses on equal terms with European modern languages and Western clause.

4. But wa sinw with misgivings the proposal of Governant to give this University College a virtual amonopoly of higher education in the island. We believe that the creation of such a monopoly will be highly detrimental to the best interest and the youth of the country; and in appear to four position we submit the following for your consideration:—

(a) A monupolty, in itself, is always open to serious question. Here, in the field of higher education, we regard it as opecially undesirable. We believe that in open competition, with the prestigant the Government behind it, such as untitution has nothing to feer, and that it will be more effective under the simulous of healthy resiry with other neutrinous Three are departunated of administration in which restricted of administration in which restricted the state of the country the heat interests of the Colony will be served,

(b) It has been suggested to us that it is the purpose of your Government to organiso this University College under a Board of Directors, or benate, so that nominally at least it will out he e Government institution. We noderstand. however, that a majority on the Board or Scouto will be official members. We are strongly of opious that, however much Government may wish to svoid it, this College will be, in the mind of the public, a strictly Government institutino We therefore believe that the experience of the Royal College will be repeated, and that few private gifts will be made to the College, and perticularly that so donations will be made to it from shroad. With this monopoly is higher education all private becavolence will be secleded from the field, from the University College, because it will be oon constant. This we would regard as a great columnty. We believe that higher education should he put on such a besie se will attract gamerous private dooore buth at home and shroad, and we believe that this can he done beat hy giving other institutions a chance to do higher edocational work on equal terms with the University College.

(c) We believe that the cost of supporting a student in the University College in Colombo will be so high that the superity in they from the country destructs will be prescisely excluded from participation in its benefits. We are participation in laterated in a students from the North, and we have no beststing in successful in students in order the proposed Fringements in orcectingly small number bound from the colombo in the property small country of study, and the superior that the colombo is described by the colombo in the colombo is according to the colombo in the colombo is according to the colombo in the colombo is shown in the colombo in the colombo is according to shoot, and the colombo is colombo in the colombo is shoot, and the colombo is colombo in the colombo is shoot, and the colombo is colombo in the colombo is colombo.

Your Excellency will be interested to know that the value of a rupen verses greatly between Colombo and Juffoe Based in Colombo at Ra 30 a mouth may seem moderate to Colombo percents, hatt is probletive to rith a verye Jaffee student For Rs, 10 or Rs 1250 equal service can be had no Jeffas. We here on reason to helieve that the cost of tution and board at the University College will be within the reach of the everage etodest from the North.

(d) Without lesing eight of the fact that all country districts will be placed at a disseventage if a monopoly is gracted to the University College, we would orge upon your consideration the spread claims of Jaffas The Northern and Eastere provinces are peopled almost wholly by Tamile whose spittedu ter higher education no one will question Jaffon is the premier district of the Tamil provinces, and it was here that the process analitation for higher education was established se early on 1823 Ever sions that time the people of the North have been keenly shys to the henefits of higher education. Until recently a full University career within the district was open to Jaffor etodenie If we shandoned the lodien Universities, it was in the hope that, by felling in line with the Ceylon Edocation Department, we should have similar privileges satended to us. To centralise higher adocation to Colombo will be for Jaffoe, a retrograde elep.

(a) Feather, the whole alsed will be tased for the seppert of the College. If Gor son tessus to as far that one part of the population should be benefited to the should compile accident of the poorer accident of the people. We are gird that the College as to be actabilities, and we are also the College as to be actabilities, and we are also provided to the control of the College and the theory of the College and the College as the College as the Data momentum of the College as the College and the College as the College and the College as the College as the College and the College as the College as the College and the College as the Super-Administration of the College of the North to the higher administration of the College of the North and the Super-Administration of the College of the North and the test of the College of the College of the North and the North and the College of the North and the North

5 We, therefore, respectfully sak your Government that is achome for higher induction be so modified as to provide for higher education in other centres then Golombo, that sedentic supports grown to other Colleges, particularly to those outsides Colombo, which strive to minister to the seed of attending to vury moderate of the seed of attending to vury moderate of the seed of a tendents to vury moderate of the seed of the

6. In presenting the subject to your Excellency for convideration we would call attention to the fact that we ser maintaining the position which this North has consistently held throughout the whole of the record discussion of the clustenest problem, as relocence to the printed testimony of the me of rough the North before the

Education Committee will show. We believe that, in presenting this memorial, we present not only the views of those who are engaged in educational work in the district, but also the singer desire of all educated men of the north.

TANJORE DISTRICT SECONDARY TEACHERS' ASSOCIATION.

VIII MESTING-THIRDEKATOPPALLE, SIN NOVAMBER 1913.

It was 6 p. m. when the meeting assembled. There were short 40 present, not with standing the increasantly popring rains and stormy weather.

Mr. V. Veidyanatha Aiyar of the Lutheran Mission Central High School, Shiyali, was voted to the chair.

Mr. N. Vankstacherier (of Thirnkestuppalle) was requested to give a brid summary of his paper read lest time. In doing so he stated that Benjish had too many harer, that other important subjects coming nader. If group starved in consequence, that acuse or all of the lest hours of the coincid ay might be given over to play or Driving the state of the coincid ay might be given over to play or Driving the coincid ay might be given over to play or Driving the coincid ay might be practing what books they chose of the Library or Magezines or Kwapappars.

Mr. V. Mahadayan encounting in the main his predecessor's remarks stated that the 9 or 10 bours daysted to English was really too much and was partly the reason why English teachers were tempted to teach even 'Non-detailed' textbooks with great minuteness, thus defecting the object of the discrimination between 'detailed' and 'non-detailed' reading. The result of anch work was not at all commensurate with the labour spent on it, the 'law of diminishing returos ' coming to operate in a very disheartening menner. Boye must be given their own time which they might spend according to the bent of their bomonre. Schools unfortunately ignored-if they did not positively discounterence-the value of such odd bours epent in school amidst books, magazines, pictures and other educative environments. Any knowledge thus nucfficielly picked up stuck to them and became their own in a far better seuse than what formal instruction was poured upon them from the nilicial chair. He would strongly recommend the retrenchment of lime given to English: 6 hours

was enough, I hour more should be given to Goodraphy and Drawing each.

Mr. S. K. Krishnamurlhi Aivar fof the Town High School, Kumbakonem) emphatically denamed the practice of Drill and Gymnastics as at present tanght; it was a veritable nuisance. an infliction, a thing which boys despised and denaded. Coming as it did at the close of the school day after nearly five bonrs of school-study within the closed school room, it must be a curse to the bove who would otherwise like to ran shout and fown and play and give scope to their nent-np enirite how they pleased. He felt so strongly that he would on the length of advising its abolition. Neat touching the division of school hours into periods, be was of opinion that 40' was too short, the teacher having to stop bis teaching just as he was warming to good ardent work. He would therefore fix a period at nothing less than 50'. So thought Mr. Keshavacherier (of Papanasem) and Mr. Sarangapani Aivancar (of the Town High School, Kumbakonam), who enggested that drill bad hatter be tanght in the mornior between 6 and 7; it had at least the merit of sheking off the droweineer and letherey of the boys and might promote the babit of early rising.

Mr. K. Stabu Aivar (of Mayayaram), woold endorse the curteiling of Euglish hours on ona condition, vis., that teachers in charge of other subjects took care to losist in their hoors on good and correct English from the boys. That not granted, even 10 hours was nothing too much. He vebemently inveighed against the teaching of Blementary Science as at present dane. 'Elementary Science' was a bastard term that had found favour only smonget us. It was a most unearmory holch-potch of several sciences very unscientifically taught-s dash of Physics, of Chemistry, of Botany, of Zoology, Physiology and what not ell mixed up together. He would advocate instead the teaching of any one of those aciences according to the convenience of each school. It was a B group subject and might be taught in any proper manner. The selection of the particular anbject might be conditioned by the individual facilities of the school. If specialierd and properly taught, any one of these sciences might require three or even four hours a week. He next protested strongly against the exaction of home-preparation from the hove, whose life and energies were being already avertaxed by hardwork in school. Assuredly the curricula were too heavy and even advanced and they pressed over much upon boys and teachers alike. Why should not the schools think of making a bumble protest? Nozt teoching Drill, he was of opnious that, had a dull might be, is served one good purpose, etc., that of feaching boys condumnts and barmonious on operation, and incidentally remarked in a humarous ven that saltanded and worked more affectively, if als members had been sersely drilled to their days of shool life.

Ur Gorussam Sastrar (of Thrukkelingpalls) objected to any kind of apscalasation as B group science and opined that it was highly necessary and desirable that boys should know the radiancels of as many sciences as possible, and delements of knowledge that an man of any prelenations to terraing should be without

The Chairman wieding up the discussion on this question observed that 25 hoors a week being presembed by the 'Discational Bules at was not of the question to cortail the acbool time In regard to the breaking up of the school day into periods he believed 40' was quite time scough for a teacher well prepared for his work The SSLC scheme of studies had given rise to certain odd recrescences in the school time-table and if it was properly sod reasonably worked might leave smple time at the disposal of the boys. For metance, the Mathematics boys (taking up Geometry and Algebra of the C group) might he spared a faw of the hours of Elementery Mathematics, so Physics boys might not be present toto Elamentary Scheoce Classes, en again Tamil hoys might be excused from some of the Tamil Translation and Composition Classes, In lint flistery, he believed, was mort was recomele drawn out from the HI Class upwards to the VI Form Except the History boys all the rest m ght be exempted from the ludian History hours when nothing but the stell old story is repeated Ils thought that even 8 hours was too short a time for Poglish and did not believe that teachers could, however much thay would, instat on correct hogish in other subjects then Luglish In regard in Drill be believed it was bad indeed, but he would propose reform and not extraction it might be made optional with games, those not taking to games might well be made to andergo the disc pline of drill. Drawing for the metter of that was no better and might be taken in hand for relorm.

Nati came the question of "Varoacalare in the S S. L.C. Scheme." Mr R. Sabramana Aiyar (fam I Panit of the St. Peter's High behed, Tenjore), male a very interesting speech characterised by good esties and moderation

throughout. Vorusculars admittedly had not kept pane with the onward march of things to Indes , they were indeed at least a ceolory older than the men who spoke thom; good and useful backs were sadly wanting. There were indeed a good many Pundits who could write excellent Tamel, but they lacked the knowledge of modero sciences and conditions, while those who mere conversant with the letter could not put two words together without perpetrating a blander to spelling, much less two sectences without violettog excred grammer, Koowledge of modern Lind and language facility in the vernacular fought shy of each other. The aducation of the masses would be, sud was bound to be a meaning less bot high sounding cry so long as verosculars were thought to be not worthy the care of Unglish knowing Indians Now the S S L, C Scheme account to encourage the scanty regard paid to them Boys taking up the C group Tomil were reelly so very few as to be regarded a very negligible number. A vast majority of Indian pupils were than suffered to peas through the whole High School course without screping ap so much koowledge as to enable them to write a decently worden letter to their parents end staters or to speak passable Temil to his fallow brathreo. This was really discreditable. There was indeed Tamil Traceletion and Compoeilion, but it received very scant attention, was berd to teach within the very narrow time eliotted to it. His urged therefore that Tamil should be learnt by every buy in school, at least so much of it as to coable him to speak and write talerably well If it could not, without extraorders frouble and difficulty, be brought under A group which would be the best of ell things, be would recommend that Tamil might be taked up in the B group which the echecle had, at all events, freedom to du Any way it behoved to all to see that Tamil did not deteriorate, but advanced with the advancing times, and if we did and bestle nurselyes in this direction, we should be greenouly sinning against our own nationality.

Mr V. Ortoweni Statuse (of Threshatterpulls), posted out that, whereas to Brushy, Bengal, ste, the veraculars did not suffer to samilar conductions here, they fixed bedly aware findread to secribe this to the 4th They lot was findread to secribe this to the 4th They lot the Avith pools to our another in short transcalars, addressed meetings to that retracellure and wrote both on their versaciation. They and wrote both on their versaciation. They are the suffer of the secretary of the secretary of the English to it and senso our tray house. Most of ne could hardly apeak folerable Tamil for however short a time without every now and thus spicaleting English wards on deven cealences. For his part, he would have Tamil taken aver it the A group, and believed that nothing short of it would meet the case. English had tee many hours for it, and might very reatomably he made in give over two or three of its hours in Tamil. He was followed by the Tamil Pradit of the Thirukkattuppalle School, who, in his tern, deplored the present fate of the versiculars.

Next spoke Mr. N. Kalvanarame Aiyar fof the Thirnkkatinnnalla School), who in the course of his speech observed that the obsence of proper Tamil taxt-hooks could not be advanced as an objection to the proper study of Tamit, because here it was the demand that created the appole : the study of it would being into the world good literature. It looked frightfully noumslous-if not unnetrictio-that we should commouly plead inshility to address an audience in Tamil born Tamiliana' as we were. There was no use of tlokering at the question by essigning to Tamil en hone or two a week and giving the vernacular work in charge of men, who, by their teaching of it, make it prow from had to worss. Gradustes or other men of English culture should be made to teach Temil, and text books should be prescribed, and the number of hours devoted to it incressed to fonz or five house a week.

Mr. K. Saabu Airer (of Mayevarem) would admit that things were poing had ladeed with Tamil, hat could not believe it was doe to any changes brought obout by the S S. L. C. Scheme. He would rather ascribe the decadence of Tamil literature to some defective neality in the Tamilspeaking race that could complaisantly allow their mother tonges to languish and drift into the back-ground. If the contention was in the main to revert to the state of this ga before the S. S. L. C. he would ask how things had been better than, what proficiency had we trahow now as the result of training in the old blessed scheme. what good Tamil books we had now produced-The S. B. L. C. Schame, if properly worked, might conduce axcallently to the growth of the verniculars. He balieved that the High School course afforded soogsh time for the saltivation of the vernaculars from the lowest clean op to the highest, and however much they might think to be fattered by the S. S. L. C. catriculum in the V and VI Forms, they had a perfectly free hand in Forms and clauses down below. II there was traily any sincere and ganning enthusiasm of the rernacular in us, we had better order things properly where we might and could.

and we should then have herdly cause to supplicate higher powers for help. He suggested the introduction of latter-day books in Tamil, and thought we had had enough at 'Krail' and ther classic works of Id Tamil, which might however, by ell means be studied by specialists und enthesiash.

The Chairman in his lacid sussed expressed his disappended of making the vernecular study abligators on all. He inclined to think the S. S. I. C. Schome had done very wisely in making the detailed and thorough study of the vernaculars untional, while it demanded of all a tolerable argusintance of them. Tastes, entitude and enthusiasm could hardly be forced or straiged a freedom was essential to healthe prowth, and constraint might only quanch what fire there might be. He, for his part, would experse the S. S.L. C. Schame from all blame in this opention of the vernaculars; the destiny of Temil was turnely in our hands. He would question the wisdom of the proposed acheme of making Temil study compulsory on all, while only few onthusiasta might develop into Temil acholers canable of writing good books on modern knows ledge. He feered it would prove undue waste of youthful energy which might else beer good fruit.

Mr. Seahu Alyar neet moved the following proposition which was duly seconded and peeced unanimously:—

"That in the opinion of the Tapine District Secondary Techera' Association, one of the day ways of improving the vormacelers is to pay greater attaining to venecates composition in all the clasers of a secondary school from the III class operand of by prescribing text-books in the veroscalars for non-district and year of the secondary school curriculates with variancelar composition both ord and written."

After a vote of thesia to the Chairman, the meeting broke op. It was one 10-30 xx. The Thirakkatteppalle School aird fortied the other mashers of the Association to supper, which was complesses as it was excellent. These were considered to the actual of the origin. The constant of the

EDUCATION IN THE MAGAZINES.

(INDIAN)

Mass Education.

by Mr K S. Appaswami Iyer

Under the apspices of the Teachers' Association, Madors, Mr K. S. Appaswamp Iyar, Sub-Assutant Iospector of bobools, delivered an interesting address on Mass Education.

Mr Appaswamy lyes devoted a major portum of his address in criticising the Houble Bill woold prava torffective in orban sa well as rurel areas. Their immediata duly to the case of towns was to bring shoot those conditions which were necessary for the soliodection of compulsion and that in the case of villages the people would have to co-operate with the Educa tional Department in order that their efforts for epresding education might not fail. He warned the andience egeinst attributing to the Grant in And Code those d Mcoline in the position of the schoolmasters which were rasily caused by the growingly illiberal attitude of the aducated people towards tham The lecturer also condemn ad the proposal of the Houble Mr Krashus Rao to plane the educational tospecting officers ander the control of the Local Boards What was needed was that funds should be mede avaitable for providing eccommodation to pupils in the schoole now in axistence and for increasing the amoloments of teachers They had enough of work to do in organ sing their ech ofa, to ondarstanding there conditions, their peeds, as also seaking reasonable help from the Government and in azerting themselves to replace the low ideals of ignorant people by haitar ideals | In all thesa meticia active help from the people was pecessery. In the ruret areas the problem of attendance in schools should be brought home to the villegers in addition to the pecuniary support that should be given in achoolmasters The question was whether any kind of compoleton could be introduced in achools at the present etage The Government proposed to double the schools by adding 91 000 to 100 000 schools at ready to existence The Government alone should not be espected to undertake in contribute the whole cost of education for they had too many projects requiring additional expenditors on hand. There was no ose un making a vagne appeal to the Government and the paopte should all feel certain in what perticular were and to what extent the Government should help them-

More active and organized work by the verious educational committee was needed, not for check mating the work of adocational officers but for to operating with them

The Indian at Cambridge,

by Mr. R. L. Turner

Me R L Torner, of Christ's College, Cam bridge, who is shortly going not to liidis to take up an appointment as Prifessoe of Liters into and Sanskill at one of the Colleges in Benares has been ducussing The Indian at Cambridge," in a paper road by him oo November 10, before the flolford Scooly in Cambridge He potated out that the position of the Indian aindent in Cambridge to day was not a happy one Ha did not stand on an squality with others People asked " What do these orggers want here? They have their owo Universities to India Why don't they stay there?" Bat in India education were n entiraly ntilitarian affeir If Indiana asked for something better then that were we to refuse them? To great numbers of men their time in Cambridge was a very real moral stimplus, strengthening their faith and giving them new ideale Tha question which ell who came suto contact with Indiana must sak thamselves was "Ata we willing to sllow Indiens to shere to this privilege?" Unless they were willing to take him as a social equaand admit bem to their anciel intercourse that printlege was denied him Oos type of chiection with which he had no sympathy was that of the man who said "If you tey and make friends with Indiane they will always be harging on to yan and your friends will fight shy of you there were other difficulties. The ludien was very shy, he was endeed a strenger in a strange lend Then he was very watchful against any thing like patronage. If Englishmen would not have bem on his nwn account ha preferred to ba left alone In this way the efforts of well meaning people had brought herm during the last few years The Government of India hed made efforts to recent years to improve tha position of Indian students coming to Logland, but these efforts were often looked upon with suspicion by Indians. The Indian had not yet come to reslies that the motives of the Government might be disinterested, and it was his (Mr. Torner's) firm conviction that it was elmost hupeless to espect that any official action would be calculated in hing about a bettee understand ing between Englishmen and Indiana It lay with fellow sindenta mostly to remove the iguorauce and credulity which existed in India by giving them a true idea of what our attitude in England was towards the pencie of lodis. The semi-official compact with the colleges that they would not admit more than two lodian freshmen every year, although a step mimsrily for the benefit of India, was the canco of great tesentment, and matters had not been improved by a speech of a high official in the University. who in an address to a body of Iodiana whom he had invited to meet him, exed words to this effect: "We don't want you here at all, hot since we must bave you, try and behave yourselect." There was very little doobt that the feeling of bitteroesa and resentment to-day was considerably worse than some five years ago. Owing in the atmosphere of suspicion the Indian atodent was by on means so ready to-day as he used to be to meet the advances of Englishmen. But some had homes to which they could invite Indiana. If the Ludiso was to carry away a corn of idea of Euglish people he must see something of English bome life. Othere might meet Indiana in business. Others who never came personally into contect with them could speak up in any circle where they heard the "black man' spoken of in alighting terms. To the young membare of this generation was antrusted the great task of forming the moral and intellectual almosphere of the next generation. It was for tham to see that Indiana went back to their country with a better idea of English people then that in which they came - India.

Education in Alwar, by His Excellency the Viceroy.

In the course of his reply to the Address presented by His Highoess the Maharajah of Alway, His Excellency the Vicercy spoke as follows:

As regards education Your Highness is to be congrainlated on being represented at the Mero College by more boys than anyother State in Rajputana. You were there yourself and your father was the first pupil entered there, and I look upon the support you give it out only as a testimony to the affection and respect the Mayo College jospired in you, but also as an indication that Your Highness has realised the importance as well for your nobles as for the prosperity and stability of the State of building up for your assistance and apprort an educated and an enlightened aristocracy. When Lord Minto visited Alway in 1909, Your Highness emphasised the importance of religious and moral education, and His Excellency spoke of the special opportunities possessed by an ladian ruler.

Is cannot be disputed that in the training of the young, maril instruction is almost powerless without the sameties of religion. In this respect Your Highness is free from many of the disculsive which hauper us in British India, and Your High-mean has made wise use of these favourable conditions by making religious and morel offset of the property of the property

(FOREIGN.)

The Practical University, by David Starr Jordan.

An notience composed of those who are connected with the work of education in London listened to an enterthining lecture at the Birkbeck College, London, on Sattorky, November 15, by Dr. David Start Jordan, Friedreth of the Lebrad Stanford Austro University, Cultorins, Mr. W. Olbert, Chairman of the London Coosty Council Education Committee, president

Dr. Jordec, whose subject was " The American University," eald that the words of Emeraori, "America means opportunity," supplied the basel idea of the American University. Their Univeraity institutions were not intended to maintain any kind of tradition or eyetem ; they were intended to meet the people's needs. What weahest for one might not be best for snother, and it was not for any educational board to say that this study was more valuable than that, it was for the atodant to find out which things were worth most to him. Some time ago a professor spoke of New Zealand as a Greekless country. He also apoke of it as a province of Anstralia; and that raised the question whather it was worse to be ignorant of Grack or ignorant of the condition of New Zealand. Some would be ignorant of one and some of the other, and some that were ignorant of both woold be the finer scholars because they keew something better, for scholarship depended on the thoroughness of their knowledge in its relation to the affaire of homeo life.

In tracing the development of the Universities in the United States, the between raid that about 1568 the Act was presed which allowed for the gift to tvery State of a large amount of Isad on condition that a University was established, which was to teach, among other subjects, agriculture and the methods carfs, and that brought engineering and agriculture into the very centre of their University spates. The work of the University spates. The work of the University spates. The work of the University

was to bring echolars together, and if he wee to offer a word to London upon the University question he would say "Above everything bring together all the fragments that are scattered over the city ' There were only two great capitals in the world that had no great University-London and Washington The University was not the place for men who neglected work, and in the United States they were moving more and more towards testing a men'e work se he went on and eending him home to think about it if it was nuentisfactory Ha bimself once sent eway 131 men in one day They had generally egreed that prizes did not help scholership, and most of their mainta tions had discarded honours for the same reason. Fellowships and scholsrships they felt very doubtful about He thought that the above of them had been greater on the whole than the good results Io most of their Universities, if they excepted those under the old unfluences, men and women were edmitted on the eame terms, and . nothing would induce the Western institutions to theoge that system One result of reaching out for ell kinds of taleot wee su coormoos socrease of etodeots In California, where the population nombered 2,000,000, there were 8,000 University Studente

Self-Education, by Arthur Mee.

It has been said that at school the boy is not adacated, bot taught how to educate himself in leter life This point of view was emphasieed in e leading article to the "Morntog Post,' the writer stating that the strongest criticism made of a student teacher is ' the teacher was giving to children information which he night to have led them to discover for themselves" It to this position that persons interested in education are taking up. The general feriors of E glish education to the primary schools is due to the forcepump system. Facts and figures are pemped in but not retained, and every iffort is now being put forward to make children's brains acquisitive and out receptive Teach yourself, and you will be taught thoroughly Open the receptive cells to the internal pump, and the pressure of everyday life and business will drive out the factoal stuff pumped in.

It may be argued that it is all very well to degratate on the matter, but where and how is the man or woman, youth or girl, to the best of the man or woman, youth or girl, to the best of the servered. Observed the late of the servered of

pablished forteightly at 7d. each issue, and edited by Mr Arthur Mee. The Editor's opening attack on success is sound to every word. The making of much money does not mean success, and Mr Gradgrind is put so his proper place. Mr Mee writes —

Soccess is the working with a danotless will and a fearless beart, and a stumbless soul, of the thing we ere in the world to do. It is not for us all to een the end of our labours, but the success fol life to the fife that is nobly spent, huilding op, at may be, to some far distant end, but building npward elweys, adding so enduring part to the ammorts cachiers ments of mankind upon the earth The man with this cossifish purpose succeeds, whotever the world may say. "They never far who die in a great cause" In that mobile liosfrom a post whose life was perhaps a feilure-we mey fis our measure of success The self educator sete no nerrower erm before os then this woold have a man live for great ends an I pursue them by worthy means, it woold have bim seek a prise that is worth the wiening, sod here him win it. We must fit ourselves for our work, wa most hold our heads high to the world

Higher Education, by Lord Haldane

Lord Haldene oprood the new boildage of the Appled Senere Department of the Shemida University end in his speech indicated that A close connation would be mentationed in feliare between pure sed applied accessor to Universities to held one own in the those was necessary if exists to held one own in the food of the service, but the second of the second of the second of the second of the Orimstry of the second of the second of the second Orimstry of the second o

The whole quantino of higher admailton, he tead, had been andar considerat up by the Chatter. They had their own time quite that now, and it was not the hands of his colleagues of the Band of Ridnestro. To begin with, there were a Consister, which although normally connected with the Treasury, had great freedom, and spread with the Treasury, had great freedom and the present of the old days.

"For the lest treiter month," the Lord Consacilier countined, "There has been a graddeal of activity about this houses of national education. My colleagen, Mr Peas, with whom I wan very frequent communication upon these subjects, as carrigge out what I believe to be an onlightnessed policy. He as treating to the very highly expert officials whom he has one you'd at the Band of Education, and he is consulting the education authorities throughout the coolingThe local admentional authorities have done splendidly, but the burden upon them bee heen very heavy. The oation will have to make no its mind to give considerably more out of central funda.

I am gled to say the plans for these advances ere now fashioned. They have been onder coneideration practically the whole of this year, and we know exectly what to do in order to make advances if we only have the ustion at our back. That is the question. And why I come bere so pladly is that it gives me an opportunity of bringing that great national cause before you. hate any idea of increasion espenditure, whether ont of local or national sources, if at can be avoided. It is salvers money, and onless too arend it you will so back as a nation, and veer revenues by which you knep up your fleels and your armice will begin to abtink, bacanse you will not be bolding your own in that great industriel position from which your power and your wealth beve comn."

Advice on Lecturing, by Mr. A. C. Benson.

Mr. A. C. Benson, in se introduction contribeted to the foorth volems of 'The Book of Poblic Speaking, hee comething to say on the ert of lastaries. He holds that 'the ordicary leaterer mest choose between two methods: he must either deliver, colemnly and emphatically, his written discourse; or else, if he dares, he may speak seinformelly and conversationally as he can; and the second method is incomparably the best. Carlyle used to 'speak his lentures." although overwhelmed by egooice of nerviceness. For 'daye before ' he said, ' drink es I would, my throat continued dry as charcoal, and he used to stumble to the platform drugged and bystorical before the lecture, and go away at the end feeling tike a man who had been robbiog henroosta; and et, with a sort of triumph at the thought of the improdule accept 'gollying at his well-dressed indience for over an poer.

Ruskio, Mr. Beusoe recalls, used a mixed method. He need to high hy reading an elaborstoly written paragraph or two and then, so he galoed coofilence, he would desert his manuscript altogether, telk in the most frankly conversational way, and even, as happened in his lectures on hirds, imitate the guit sed flight of crows and swellows, se far as wingless biped could. Oo the other hand, Mr. Gladatone has been beard to daliver a long lecture on a Homeria aubject, fall of carions learning without a single nots and

phrene and a maunificent, eccompaniment of oratorical resince. Mr. Beoson's owe method is to write the whole discourse, and then 'golly' it out with what amphasis and valuemence he can muster. The one point he has learned by practice is the absolute occasity of clear connection

Another important point is to get, into homae touch with the addinger . 'Ag address delivered solumnly and nontifically may possibly be impreseya : but it cen berdly inspire. The best plen is to awarn the faces of the paster listeners, find a ay mnathetia nerson, and deliver one's lecture at him or her. I have keewn the whole toon and current of se address changed by a lecturer breaking into a responsive emile at some smiling hearer. The reel object of lectering, Mr. Benson usserts. is 'not to communicate information, but to try to plant perminal ideas in the mind, and to arouse ceriosity, not to satisfy it.

Weniema and Botices.

PRESIDENTAL CHEMISTRY, BY H. W. BATSON. M.A. POSLISHERS: W. B. CLIVE, LONDON. (University Totostat, Press) 1s. 6d.

In this bandy treatise, the author basemiccetly encoseded in the task he has set before himself. of providing a coerse in Chemistry for begieners. There are many lastures to recommend It on's valuable upide to vocey learners in understanding the elementary principles of luorge eie Chemistry. The arrangement of subject matter, the nature of experiments and the clear instructions for doing tham, are all such as can be desired. It is note. worthy that too much relieucu is oot placed on heuristic methods and that, therefore, it is fren from a defect, which, unfortunately, is noticeable is some modern publications on the subject, and which, onless carefully goarded against, rather lands the hegiener into vagoeness and inaccuracy. than aide bim in ecquiring a definite and coherent knowledge of the subject. To each chapter ere appended a summery thereof, perctical eastroises that may be set on the person, and a number of questions calculated to impress clearly on the learner's mind the principlus taught in each; thus the neefploose of the book is greatly enhanced. The diagrams are, no doubt, neatly drawn; but we should like 'to say that it would have been far more useful, if, justead of the sketches heing represented, some ie perspective, some in section, e noiform muthod, (desirably employing all the time 'e enstained felicity of ; sectional diagram) bad bene followed,

Characteristically ecospi of the Publishers, the printing and the general set up of the book are seculeto, and the price is moderate caseigh for such a good trastes. We version to think that, with a few additions to its coppe, such as the study of Nittre and, and the most important and useful metallic and their composition, it will form a sould be table to the composition. The such that the composition of the content of use in the lower forms of achools in this President, if not not her provinces also as well

'ORGANIC CHEMISTRY,' BY JULIUS B COMEN, PR D, B So, FRAS, PUBLISHES T C AND E C JACK, 67, LONG ACRE W C, LOS DON 64 wet

We we an apology to the Publishers for the delay in rarewing the book. The Science of Organic Chemistry is of no less importance and on the common of the common of the common and well being an application of the common and well being development of indestry in various suscess and the development of indestry in various branches Narestheless, except a few that have to specialise in it, the greenty publishes no attracted to a stary of the subject. This rary be due partly meaner in which it is handled in come treatises.

The author has sought to present the elements of this science in a clear and interesting form to the reader of average intelligence and has, it must be said, well secceeded in the task The introducties deals with the original meaning of 'nrgamic' and the gradual widening of the scope of the subject due to the application of science to the several departments of indestry, such as dveing, tanning, manufacture of candles, sospe, mke, papers, glue, artificial ailk, perfumes, explosives and photegraphy Then follows an account of the trend of screening thoughts that led to the conclusion that 'Organio Chemistry' ta governed by the same laws of combination and affinity, etc. as "Inorganic Chemistry' A few pages are devoted to the study of the preliminary processes, terms and expressions riquisite for a clear study of the aubject, e g., purification of a substance, fractional distribution, molecular weight, molecular and empirical formula.

Amongst the subject-matter which the book treats of in givater or less datal, mention may be made of the petroleum and parsfin iedustry, properties of halogen compounds; alcohols and their atructure, the maoufacture of heera, wices and spirits the fatty acids, atcanne candles, cleffing, glycerine;

carbohydestes, nxalic, fartaric and citric acids, rotatory polarization, the proteins, coal far and its products, cas phenols, beasons acid, camphor, and induce, and artificial dyes

The printing and the get up of the hock are very far and the pretentment of matter is as simple and eitractive as the nature of the subject will else We should like to recommend that it will be a useful guide to persons dissons of sequering on elementary keewledge of Organic Obsensity

PROBLEM PAPERS IN ARITHMETIC FOR PREFABATORY
SCHOOLS, BY T CHOPER SMITH, M.A. GENERAL
EDITOR: WILLIAM P. MILNE, M.A., D.So.
(G. BELL AND SOAR). 1: 63

This small volume has been written with a viaw to aid mathematical masters of preparatory classes The book contains 5 seta ul papers divided into 20 parts of 5 questions each, and is specially useful for teachers who prepare hays for the Jenier Examinations of the Eoglish Univereities It is not bowaver quite adapted for use in all the preparatory classes of the Indian schools, as setended by the author, but an tetell gent Indian teacher will find ahundant examples in Arubmetic for the 4th class of the preparatory echools, and for all the three forms of the Lower Secondary Department. There are also soma porttons susted for the 4th Form of the Upper School sech as the advanced questions nn square and cubic elemente requiring a knowledge of Pythagoras' Theorem (eg Paper E-18, 1) and of Invelution and Evolution. But the ment of the book chiefly lies in many suitable examples that may be intaligently solved graphically such as those on time and distance, &c., (e.g. Paper C-3, (e), 5(i), 7 (i), 9 (i), D 1 (i) &c. Some of the papers especially in the latter part contain a good number of problems that may be easily solved by equations. There are also to be found meny typical examples on the fear simple rules that may aerve for graphical illustration in the Lower School.

We may also suggest that some casy problems requesting a knowledge of metric system and decembel fraction, and of Irdam conta, may be introduced then and there. On the whole we are techned to thou that the hook will be useful for the middle forms. It will also be a valuable addition to the Teacher? therey of the akhool.

THE ATMOSPHERE, BY A. J. BERRY, M.A. (UNI-VERSITY PAISS, CAMBRIDGE). 10 MEL

This handy hook contains a brief and clear account of the discovery of the constituents of the atmosphere and of their properties.

The first chapter deals with the concention of the composition and properties of sir in early times and the several stages that led to the formation of correct potions thereon. The principle of horror sacri fien Nature's abbotrence of a racuum), by which the anciest philosophera including Galileo explained the phenomenon of section to swringers and numps, and which remained current tell Torricelti discovered almospherio pressule: the valuable services rendered by Torricelli, Pascal, Guericke. Robert Boyle, Marjotte and Charles, in the develonment of the study of 'air pressure' and the construction of appliances for its measurement, off three are described clearly soough to he easily grasped by the eager learger. Chapters il and Ill rive an account of the 'Phlogistic Theory' of combustion, and the decline and fall thereof, and of the contributions of evicent scientists like Prinatley, Carnediah, Dalton, Lacciniar and Ayacadro, which led to a new era that might be termed the begiening of Modern Chemistry, based on atomic theory. Modern riews on Combustion are treated of in chapter V.

The principal constituents of the stenosphere. their important properties and the part they play le the economy of Nature ere mentioned in thapter IV, while chapter VI is devoted to the constancy of 'almospheric composition.' A brief explanation of the 'kiestic theory' of gases and J. Stoney's views regarding the escape of gases from planetary atmospheres are found in chapter VII and the nest one deals with the formation of liquid air and its properties. In chapter IX is traced a brief account of the endearcure of great scientists such as Raleigh, Romany, and Dr. Travera in discovering the existence in small opacities of the geres, Helium, Neon, Argon, Krypton and Xenon, Chapter X treats of the Badio-activity of the atmosphere,' a subject which is connected with many startling modern discusses in Science and which offers an almost unlimited scope to future scientific apploration, while chapter Xf closes the book with a study of 'primitive atmosbreise,

This is an excellent hand-book and will be of imments use to an ardent learner in providing browell with a clear and simple account of the greath of the subject from the extinct times down to the present day. Dry as the details must be

to any hot the most earnest students of science, they have been precented in an interesting and inviting mannes and the author is to be congratutated on his eminent success in the task ask before himself. Diagrams, though few, are nearly drawn and the portrains of some of the greatest workers in the scientific field covered by the book, (Robert Boyle, Joseph Priestley and Joseph Bluck) add to the osefolors of the book. The priorities of the productions and one of the state of the contrained by the contraction of the contraction of the contraction of the We published the contraction of the concelled for the author of the Amendment.

Bell's Exolist Tatts: Exolist Elevales; Selections from Culidae; Poems by John Mickov; Poems by Lord Berdy; Maceulay's History of Exoland, Chapter III; Plutarcu's Lives of Cesar and Cicelo, (Clouss Bell and Son), 61, ecch.

The general study of literature is facilitated by handy editions of masterpieces, like those which Mesers, George Bell and Sons have now issued. They are just what editions of plain-tests ought to be-cheap, neatly printed and neatly got op, and the selection of pieces made with taste and discrimination. A collection of English Elegiars has been a long-felt want and it is supplied by one of the solemes in the Series, which has Lucides, Adamsis and in Memorian. The addition of Gray's Elegy is a Country Churchyard sed Matthew Arnold's Thursis could have completed the list of the chief elegian mesterpieces in the language. without increasing the size of the book materially and wa rather regret their emission. We may slico observe there might have been some general remarks on Elegiso Poetry in the Introduction. The Selections from Chaucer are eminently satisfactory, comprising as they do the Prologue, the Knight's Tale and the Prologue to the Legend of Good Wassen. One may however venture to take whether the bumour of Chaucer is adequately represented in this selection and whether it might not have been better to include a piece like the Nonna Pricates . Tale. We are also sorry to notice the omission of a glossary at the end of the book, which would have been necessary even for those who here made some progress to the study of Chaucer, much more so to the general reader. Nobody can sek for a bettee representation of the poetry of Milton, than the pieces Included in this volume, the first two books of Paradise Lost, L'Allegre, Il Pensessa, Lycidas, Cours, The Morn-

ing of Christ's Natirity and some of the best

Sounds We have nothing to say against the choice of pieces from Byron, except that Childs Harold need not have taken up 91 pages, out of the 120 to the book

Turning to the two volumes devoted in prove. wa arn glad to see the publishers have begon with Plutarch and Mucaulay There can be no mtellectual food more wholesome and ennobling to the young student, than the piges of Plutarah, and the lives of Course and Cicero ere the heat that could been selected in the circumstances. If they do not ellustrate Plutarch's desire to see some parallelism in the lires of certain beroes of Greece and Rome, they represent ten careers, widely different in aim and action, which elso seem to supplement each other The third chapter of Macaulay's Hutory of England in perticularly oveful as a corrective to a characteristic weakness of the Indian mind, the sadversa mate idealisation of the past and an unwillingness to recognise the advarcement of recent centuries To the audent of History it is of course envelopping as giving the most comprehensiva and picture-que account of England in the times of James 11 We here great pleasure in recommending the books for general study in our schools and colleges

BELL & Sone) 3d each 1-VII (GEORG

Messre. Bell & Sons desarre to be congratulated on this excellent beries of Poetry Books. The selections have been made with a fine appreciation of the sesentials of postry end are arranged in the books graded according to their difficulty. It is a good thing to have the contents of all the paris to each part, so that a comprehensive idea of the cotica range of selections is afforded by merely glattering at these pager. It is probably not possible to get selections from standard enthers, for the elementary books in the Sames, but the later volumes need not have moluded extracts from writers who are not even there rate poets chosen need not have natended to E M Holden, A. A. Proctor, Norman Gale, H. O Beaching, Mrs Norton, Samuel Lover, Rev Neale, Edward Thring, Charles Drbdm, Les Hamilton, Gilbert Thomas -all of whom figure in Bis. V, VI, VII. Leterary taste cannot be ton aristocratic in such matters

Professor regrets the non inclusion of the retarculars emong the compiliory subject of the Uriversity co-ricolium. We are not sure if the introduction of respectal transition in the place of vermandar composition, which is now compolitory in the Intermediate clares, will result im any great improvement of the vermandar The suggestion is however worthy of serious conaderation as it emanates from a scholar of simnence.

THE DOSAGN University OF THE WORLD, BY D. D. VACHIA, B.A. (FOAT PRINTING PRESS, BONGAY) S.A.

This as a bonnerous shi ton attempts to mais University decotion as comprehense as penally Hera is a group of suggested a chyetis "Industrial Edisaces, English List, Tests, Human Economy, Ralignos of God," and so on, "We fast to ree say necessary for this kind of georgeon canesture, for when not here'd of any nushare of significant and the state of the same state of the

OLD TIME STORIES & OLD WORLD CUSTOMS, I-III, BY O SETRUDE CATON, (MICHIELIN & CO) 6d, each

Old Two Sixtus and Old Need Contras are a series of very activations and entroptive books. The takes are nearest on the most charming manner possible, and throw considerable light one only on the History and Geography, but also on the religious neighbor people of americal Laying, 1877 and the series and Rome Brent and most over the will find entered and Rome Brent and most over the with them. The authories has taken great plain to make hereal? modestood by children and her gift for one of the laying not every play order.

Gr. Accessed College, Margalete. We been received the sensul report and pure infect roll-218, of tha St. Aloyaus' College, Margalete. The rest constitutes a record my none of strength is the students number 1,315 as against 1,126 of the base of the sensul report of the sensul report of which is the second-pulse of the Becture at the Science Late of the the colonistics. On the sensul report of which is the econophisment of the Electron stallature. The staff of the school as seen in the report is maintained in an excellent condition. The College Successes the one-holden players of the College Successes the College Successe

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Hope of the Vernaculars, by A. R. Rejagaya Verna, M.A., M.R.A.S. (Kamaleleya Printing Wores, Trivaldrum)

This is a speech by Professor Rejaraja Varies of Trivendrum in defence of the Vernaculars The

THE BNIVERSITIES.

MADRAS UNIVERSITY.

Special Mathematical Lectures.

A conras of University lectores, about twenty in unmber, will be delivered by Mr. E. H. Neville, Fellow of Trinity College. Cambridge, beginning short Jenuary 5, 1914. and lasting about five weeks. For the benefit of those who can attend the lectures for only one week, the lecturer will deliver in the first work, two lectures on "The Nature of Real and Complex Numbers" and two lectores complete in themselves oo "Differential Geometry." The remainder of the course will be taken up by a more detailed treatmeet of this latter subject. The subject of the main coorse is " Moving Axee and Differential Geometry," and only soch persona are likely to henefit by it sa have read on to University M. A. Standard in Mathematica. While the leotorer will employ as original method, those who wish to attend are recommended to coosult (after oon of the usual text books) either Darboox's Theorie generale des Sorfaces or Elecohart's Differential Geometry. Those who wish to attend these lectures shoold apply at onca to the Registrar. University of Madras, for tickets of admisaion, statiog whether they wish to attend during first week only or during the whole coorse. Those who are not Masters of Arts of this University are requested to inform the noderaigned of their standard of Mathematical attainmenta.

Elections.

Elections for the two vacancies created by the resignation and retirement of Mears, C.A. Smith and A. B. Strange among the order of two vacancies elected by the New Yellows of two vacancies created by the retirement of two vacancies created by the retirement of the Horvibe Mr. V. S. Snoith and St. Pellows elected by Registered Graduates, will be held on Saturday, the 10th dannery 1915, between 1 and 3 r., the property of the contract of the property of the p

Change of Examination Dates.

It is notified by Mr. Francis Devalury, Regultrar of the University, that the follow-

ing exeminations which should be held commencing an Monday, the 6th April 1914, according to the Regulations will be held instead memoring on Monday, the 80th beautiful 1914;—(1) The B. A. (Honoore) degree Examination—Part II; (2) The M. A. degree Examination; (3) let L. M. and B., its M. B. and B. S. examinations; (4) F. E. and B. B. and B. B. Examinations; (4) F. E. and B. B. degree Examinations; (5) F. E. and B. B. degree Examinations;

The following examinations which should be held comminencing on Wednesday, the 15th April 1914, will be held instead commencing on Monday, the 6th April 1914.—2ad L. M. and S. Final L. M. and S. 3rd M. B. and R. S. and Final M. B. and B. S. degree Examinations.

It is notified that another practical examination for the L. T. Degree under the old Regolations will be held on Wednesday, the 15th April 1914. Applications for admission to the Examination from andidates who here passed the theoristical test but have yet to complete the degree should reach the Registrar in the form prescribed not later than the 1st Pahranzy pre-ceriord not later than the 1st Pahranzy pre-ceriord. Recadidate shall be admitted the examination coless he has previously paid a fee of Rs. 20.

CALCUTTA UNIVERSITY,

Address to His Excellency the Viceroy.

At a special Convocation of Sonate of the Cakutta University in the Throne Room of Government House on the 25th inet, the Vice-Chaucellor read ont an address to the Viceroy as Chancellor of the University and presented in with a silver casket. In the course of his address the Vice-Chancellor said the University would have to appeal for financial sasistance to the Government for the development of the work of the University especially in regard to the higher post-graduate andly. Ho

for the preferment of honorary degrees.

Professor Vinogradell for LLD., Professor Jacobi for D. Litt., Professor Young for D.So.;
Doctor Rashhehary Ghose for Ph. D. Mr.
Rashodranath Tagore for D. Litt., Mr. Hayoes

for D.Sc.

His Excellency the Vicercy in the concasus his reply spoke as follows My Government has already received proposals from the Univarsity of a very extensive character and wa are auxiously considering what in the light of experience here und elsewhore are the lines. on which it will be most profitable to advance when the general policy has been laid down in broad principles in the Government of India Resolutions of the 21st February last. The application of broad principles to practical conditions is a matter calling for much knowledge, experience and patinot investigation. Especially to a country so circumstanced as India, I have up doubt, however, that in the folloess of time our University, thanks to the gifts of generans donors like Sir T Palit and Dr. Rashbehary Ghose and the assistance of Government will become a centra of far radiation influence for the higher education of tha territories within its academic inrisdiction I whish you, Benate of the Calcutta University, every good wish and I can assure you that I and my Government are not less interested then yourselves, in all that pertains to the progress of aducation in the highest sensa of that term, which suclades the formetion of character, the cultivation of mind and the dissemination of an over-widening infinence of engagement.

THE PUNJAB UNIVERSITY.

Convocation.

The annual Convocation of the Punjab University was belden the 23rd costant, His Honour the Lientecent Governor as Chancellor, presiding. An address was delivered by Dr. Ewing, Vice-Chancellor and it took the shape of a moral discourse laying emphasia on the kind of character that University aducation was expected to develop. In view of the social, intellectual and moral requirements of the country, Dr. Ening said; "Personal character, clear, strung, definite and true is a quality the absence of which in an individual to abom is assigned the position of leadership or alto arrogates, to himself anch a per too, to commantly can afford to access. Referring to the growth of commercial activity in the country Dr. Ewing gad : "It to the preminent festura of the

times," he continued "I take it that most of us do not set a high value upon houcely only because it is the heat policy. Yet we are not thereby precluded from recognising the expediency, stility and secessity of high moral penciples throughout the entire domein of trade an I cummerce." Coocluding Dr. hwing esid "Unselfish patriotic service performed for the welfers of those whose opportunities and privileges have been fewer than yours works persistently done free from light of self-advartisement and rendered effective by tact and skill of which your training has made you masters, it is upon these that your equipment and environment summan you to outer."

ALLAHABAD UNIVERSITY.

Proposed New Chairs.

The Convocation of the Allahabad Univeresty took place on the 15th altima. The Ron'hle Dr Bunderlal, C I. E. Vice-Chancellor, presided and delivered the Convocation Address which has been published in this number The Vece-Chancellor referred to the establishment of the Faculty of Logineering and the non extension of help to the Ibomsson College, Ronrkee. Ils annonnees that the Government had given their approval to the establishment of University Chairs to Economics and Modern History and expressed their willing neva to establish a third Chair for three years. The Address concluded with an carneal appeal for higher studies and research at the Universities

Elections.

At the University election hald on the 22ed altimo, Pandit Gokaran Nath Mirrs, Pandit Iphal Narain Gorig, Pandit Manolavia Databi and Perfessor Candi Prasad have been elected Fellows of the Allababd University by the Hegylsterd Graduste. We congratulate them on their well-mented election.

Indian Educational Rotes.

H. E. THE OOVEHNOR'S VISIT TO

The Raja'e College, Parlakimedi—At this College His Excellency was received by the Zemindar and Mr. A. E. Cotton and was conducted round the buildings by Mr. E. Winckler, Principal.

Diffice besing the College, His Excellecy media before the single properties of the Stationary and the College may I trust long continue to be a source of grids to Carlestand I. Is well messed of prids to Carlestand I. Is well messed and directed, well equipped with belidings and with play and and recreating grossed, set way care advantaged to the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the continue of the condatased of the continue of the cont

His Excellency then performed the interesting coremon of lying the foundation stone of the Advisor of the Control of the Contr

Urjra divis' School. Parlakimedi.—Laving the College, His Excellency and party motored to the Urjra divis' School where they were received by His Both Butherf BS. V. Serms, Estate Mannger. The giple ang Urjra sense composed for the occasion, and contrained. His Excellency and party case, and contrained the Excellency and party Governor estared the following remarks in the Victors. Book—18 that here pleasure to twist this school and to know that the orecessory extending a book of the Midlings and play grounds are approved. The school seems will messaged and shown avery. The contrained the College of the College of

Telugu Girla' School, Parlakimedi —His Excellency and party visited the Telugu Girla' School where, slso, His Excellency the Governor was received by Rao Habadur B. S. V. Sarma.

His Excellency cotered the following remarks in the Visitors' Book :- "This is so excellent school doing good work which is evidently much appreciated and I wish it success."

Mrs. A. V. N. College, Vingapetam.—As the instruction of the Excellency was received by the irrates Sri A. V. Jaggs Rao and Mr. P. T. Sreadirest Jeanov and the other members of the results of the state of the stat

and saw the library se well as the drawing class at work. More than an hoer was spent in in-

Maharaja's College, Vizianagaram.—At this College, Bis Excelleecy was received by the Reja and Rao Bahador K Rameanja Cheries, Principal, The College has an sectent origin sed has been patronised liberally by a long succession of Maharaisha and Hajaba of Viziaseagaram.

At the conclusion of the sepaction His Erelleecy was conducted to the Durel Library where had assembled the Principal and statust of the Seakrit College. Some andexts recticd a few served from the Voins, it resultation of which was fur-sinked to His Encollege? An electry status was revisible to the Erelleecy and electry status with the protection of the Erelleecy Principal Banderijs Charles then particularly Principal Banderijs Charles then particularly Erelleecy and the Erelleecy and Composition His Excellence's marty.

Government Girls' School, Visianagaram.—At this School, His Excellency was received by Mrr. S. Kaineswara Rac, Sub-Assistant Inspector of Schools, Genjam and Visagapetam Girls' Range.

The following remarks were made by His Exerts lercy in the Vicitors' Book of the School :-- It has given me much pleaenre to pay a visit to this echool and to fied such good attendence and singing."

Opslaw Institution, Gaspim Dt - As the faution, General Programmer of the Programmer of the Programmer of Waltstrand Mr. O. Rantical, Inspretor of School. This is every cold fouristication establisted salong ago as 1818. Mr. A. Onaton, theo Collector af Gaspim, having hapanthed by deed of troot, some lasked property for the stabilithment of a chool. The Lord Bishop of Madras and the Archdecon of Madras were appointed tunsteen. This was the Stat Augle-Vernaculur School in this was the Stat Augle-Vernaculur School in this

Government Orders—The Government approva generally the proposal of the Mancicpal Conceiled Tallickery [1] to ratend and improve the Brennen College buildings and [3] to construct a hosted with the proposal of the proposal of the control of the proposal graph not exceeding this amount from the Imperial non-recurring graph 479 [4] kilk for education

Forther orders regarding the preparation of detailed plans and estimates and the execution of the murk will issee in the Poblic Works Department. The requirements of the Municipal Council in regard to the buildings should be communicated to that department through the Director of Public Instruction.

On completion the boildings will remain the preperty of Government, but will be leet to the Manietysl Conneil for use in coesection with the college.

. . .

The Government are pleased to senction a great not seconding one ball of the school expenditure nor Rs 7925 towards the cost of certain additions to St. Joseph's European Convent Girls High School. Cellent.

The Government sensition his proposals of the Direction of Public Instruction to Admirables such particular of Public Instruction to Admirables such saidy of Re 94,225 to the local be ared and mance publics shown on the histochambet day him for improving the coals of subarres of the general said impropring the secondary schools and cellipses under these municions. The amount will be main from the special impersing part of 23 in his provided to the cavel budget estimate for 1915—18. The histochambet can be also depended to of the cavel budget estimate for 1915—18. The think of the cavel budget estimate for 1915—18. The histochambet can be also depended to dishere the subarbudge cause and also are capital for the cavel budget estimate for 1915—18. The

The district boards and monoppal connels will animate to Government in the Local and Managinal Department at an early date proposals for if a revision of the costs of alarmen of the state.

The Director's proposal to distribute Rs 9 100 for improving the scale of selence of the pendits and nither lenguage teachers employed in the secondery actuals and colleges under local boards and council pai commits will be separately considered.

The Government ere plessed to espection e great nor Rs 3,200 towards the cost of construction of e drill hull in the Lundon Mission girls' high school, Veptry, Medras,

The dopterment approve the proposal of the Monospiri Gonzoll of Kurrond los experient 6 are with proposal conditions of the Monospiri Gonzoll of Kurrond los experient the school The cost of the sequention with proposal conditions of the sequention with provided as the Civil Budger Estimate for 1913 14 and when experient desired the site of the Monospirion of the Spirit of the Monospirion of the sequential way and when experient the site of the Monospirion of the sequential way and the property of Government had will be lent to the Monospirion of the sea of the Monospirion of the Monospirion

Further orders regarding the ecquiention of the property will resue in the Public Works Department.

The Government are pleased to annolog a great non-creecing one half oths annual supraidance are its 3100 control the cost of certain produces are its 3100 control the cost of certain produces for the lireche Mamorai School, Oularsonad, sobject to the control that the cost of the co

Under section 21 aub section (i) of the Indean Universities Act, 1904, the Governor in Council in pleased to sacction the further efficients to the

University of Mudree of the American College, Madura, in Group (n-A)—Physical Science—of the BA Degree courses

The Secondary School Leaving certificate used by the Mysere State will be considered rquivalent to the S-condary School Leaving certificate gracted by this Guerrmech

The Government senction a great of Es 17000 to the Munacipal Connot of Pelighet towards the coat of the installation of a gas and electricity plant in the Victoria College. This sencent will be met from the Imporisi non-recurring grant of 49 lekbe and will be paid in 1914-18 The work can be put in the of the control of the paid of 1914 between the paid for the libery ear.

The Government are pleased, as a special case, o senction of most of B a 10.09 being con-third of the estimated wide [Rs. 20,118] of the ground floor of the filterian Secondary School at Vanilyambade and another grant not exceeding one built of the actual expenditors one Rs 1820 towards the cost of the first and second storage proposed to be added thereto

The Government are pleased to senation a great not secreding one bell of the actual expenditure acr Es. 7.30 towards the cost of additions and improvements to the building occupied by the Town High School, Gontor.

The Government are pleased to senction a grant not exceeding two-thirds of the school approximer nor Rs 2826 towerds the cost of construction of a building for its primery school of the Prizentaton Convent Middle School, Venery, Middres.

The Gottenment assetion the proprial of the Director of Public Instruction to lit id the assumes tunn for teathers' certificates under the Code of Regulations for Foropean Schools in the month of December with their from this year.

The Medrae Teachers' Guild —A general mestrog of the Madrae Teachers' fluid was held in the Huedh High School, Tripleane, with the Hobber V Srimwess Seatrer in the cheir Mr K B Ramanadhan delivered an intertaining lecture of What Aits the Tracher." Mr. C K Krishof-What Life Teacher."

What Ails its Tracher." Mr. C K Kushop Prepage rate opened a ducassion on the Hardy Delection as the L.T. correction. Has meeting the second of the Hardy Delection of the L.T. correction. Has meeting it was considered to remove the sobject. Il latery of Education. Trom the L.T. course, and the Geretra Delection from the L.T. course, and the

Mr. Goenamuthu esid that no person could be a liceolisted teacher without some knowledge of the bistory of sdecation and es such it most be included in the cerriculum. He sho soggested that the opener might bring out a resolution on the sobject. Several other members took part in the debate and they all garged with the oppray.

Mr. O. K. Krishne lyeoger theo moved the following resolution:—"That this meeting of the Madres Teachers" Guid regrets the amusion of the history of classics from the L. T. course of the Madres Hajeresis and requests that early steps be

takes by the Sassie to reintroduce the same."

The resolution was carried enunimously after heliog dely accorded. With a vote of thanks to the Chairman the measure it arminates.

Neder Secondary School, Porelyer - Owing to the sincers codeswors of M.R.Ry. S. K. Sripivascherier, Avl., B.A., L.T., the Readmeter of the N.S. S., Purelyer, the School convergery came, for the first time, to be greadly performed this very.

On Satorday, the 15th ultimo, 'sports' was held in the Maldhau at Tracqueber. All the citizens took an active part and there was a large number of speciators. Mr. Iwaing and a few other local

officiele acted es judgis
On Monday, the 17th Intimo, M.R.Ry, Rao Sabib,
N. V. Rajacher Arl, B.A., Deputy Collector,
Mayavaram, prauded over the interesting overcomy
of the distribution of prises. He first unceited

Mayersers, practice are the interesting creations of the distribution of prises. He first unreside the paintings of the late Mr. The second the Nader, the lounder of the functions end of Mr. Neifer, the first manager of the school, and then gave away the prises.

M. P. Dorsiasmy Aiver. Eng. Journalist and

Secretary of the Tasjore Durrick Confecence, gave a rary thrilling spetch which sined at impressing the grand massim. "Honour the king." The President lo the course of his impressing aspects protected out the importance of pencinality, advised the protections to keep an pluri reposition and anisotral his other studied to sails to win such becervious belop of M.R. By. "I. Garessay, Nedar All, the propristor of the institution, the school may soon rise to college.

With the vote of thanks to the chair by the Manager, Mr. K. Samy Iyar, the proceedings came to a close.

Toon select scenes from Shakespeara's King John and from the Tamil Shofs Charifrom come to be successfully acted on the stage.

"Sree Guanodeya Samajam," Nellore—The first anniversary of the "Sree Guanodeya Samajam," Nellya, was celebrated on the 2nd inamon with Rao Balador T. Reghersyra, Eng. 2.e., Univier Culiortor, Nellora, le the thir.

The meeting begso with the introductory remarks of the Chairman and the prayer in Telago verses specially composed for the occasion. The Scoretary of the Samsjam than read the August Beport for the year ending August 1913.

Mr. S. Bhevarsha Bao Paotale Geru, BA. LT., Sub-Assistant inspector of Schools, Kavaii, addressed the andienosoo 'self-belp.' The speech was obstasterized with sloquence and impressiveness.

The Chairmania bis concluding sporch encouraged the members of the Association in no able speech. Then the Chairman, the Lecturer and the President at the Samajan were gerlanded in the middle of bond applausa. None-gays of flowers were then distributed among the goal lemen present.

The President Mr. K. Yenketramsiye Garo, B.A. LT give a hearty vote of thecks to the Chairman. Thanks were also proposed to Mr. S. Bhaveraha Rao Paotolu, B.A. L. Z., the lectorer, and Messes. M. Narasimschariar Avl. B.A. B.Z. and A. Santans Rams i yenger Avl. B.A. L.

The mesting came to e close with the Singing of the 'National Acthem'

The Kumbakonam College.-Under an invitation isened by Mr Yeten, the Principal, the clife of the town essembled to witness the opening of the additional baildings just completed within the college premises, the new extension being intended to accommodate partly the science classes and laboratory and partly the English lecture rooms. Mr. B. B. Wood, I C.S. the Collector, who was to parform the opening revemony arrived with Mrs. Wood accompanying him. Mr. Yates spoke of the Government greats for the works, appealed to the public to endow scholarships such as the late Mr. K. Ranganadha Row and asked Mr. Wood to Inemally open the new rooms filled up with scienti-So apparatos and other equipment to begin the lessons with Mr. Ystes then banded over the key to Mr. Wood. Mr. Wood rose amidst rheere and delivered a rother loog speech beginning with his theoking Mr. Ystes for his kind invitation and offering in the course of his Address selvice to the students of science for whom the new buildings had been intended. Mr. Wood coogratulated Mr. Yates on his baving succeeded to getting grants from the Government which was no easy task at all. impressed on the stadents the need of clear thinking so essential for scientific studies and no less for access in life. He also complimented the College for the esceedingly good physical environments it possessed in its beautiful meadows and thus making the whole premises lock like the Cambridge College, and it had rightly carned that name in South India. He added that the College

would continue to be the best in the Presidency

succest the Presidency College at Madras. Ha then

laft for the rooms and opened them with the key

amidst lood cheers. With the esnal distribution of

flowers and pen superithe gathering broke no.

B G M School Palghat - The opening ceremony of the new Basrl Mission High School build "g Palghet, took place on Saturday the 29th ol im a us 4-30 PM Among those present were R. v W Muller, Principal of the B G M College, Calient, Rev P Sengle of the Thrological Training School, Cannanore A H Davey E q of the Victoria College and M R Ry R. S khara Menon Asl Monercal Chairman The President began the proceedings with a prayer Sume Mulayalam alukas which were composed by the Pandits of the school were rrested by a student of the same school Then the Manager gave a brief his cry if the school After lectures by Me A H Divey Mr R Sekhare Menon and Rev P. Sengle, the proceedings came to a close

St Joseph College Trichmosphy —Thodusrhu ton of press to the successful students of the St Joseph College Bull, recently Mr. Le Buthery 16.8 St. Joseph College Bull, recently Mr. Le Buthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16. Duthery 16.8 Duthery 16.8 Duthery 16.8 Duthery 16. Duthery 16.8 D

S P G High School, Vapary -The sesenty fifth of F G fight School, vappry - 10s seathy fith annivariary and distribution of press in the pupils of St Faul a High School, S P G, Venery Madras, took plecs in the Madras Museum Thratre, with H E Lord Pentland in the chair The function was withrand by a very large gathering of ladies and gentlamen, both European and Indian, the bulk of those persont bring the perents and relein the programms to soliven the meet ng, and the is the programms to curve on the meet mg, and the proceedings began with the singing of the bymu "St. George," and then nearer A young point "St. George," and then nearer A young point "St. The Rev H. J. Fdmonds, Principal, then read the report of the achool for the year 1912-13. His Excellency then distributed prizes consisting of books to the eucceesful pupils and there were special prizes also distributed for carpentry work in the various forms of the school There was another apecial prize called "Mr Potts Prize" swarded to the pupil who had done most for the bonour of the school during the past year with special reference to work games, and past year with special restricted to work games, and garrial conduct. The Rev Canon Smith proposed a vote of thanks to H E the Governor for presiding at the meeting and for distributing the prize-The proceedings terminated with the singing of the National Anthem and three cheers for H . Excellency.

The Herria High School -A very interesting rathering took place in the grounds of the school at Peter's Road Royapattan Thenbiect was in orlebrate the fifty seventh anniversaly of the foundation of this school by Irird Harris, . former Governor of the Presidency, and to die ribute the prizes swarded after the cunnel examinations. The chair was taken by Klian Bahadar M. Sufder. Busain. Khan Sebib Behader, now a retired Deputy Collector, hot formerly a student in the Harris School The pre-ceedings commenced with drill expresses about 30 boys averaging possibly 12 years of age, taking part in it Tun R port was next read by the Rev M G Goldsmith the manager of the school The Chairman then distributed the prizes and gave the students sound words of savice Rry M G Golds smith proposed a cote of thanks to the Chairman for attending, and for the kind words he had expressed, on well as for the noble example be bad duplayed to the bonour of his old school The vote of thanks was passed with accismation Three cheers were called for in his bonour He was gerisaded and conducted to his carriage, and the proceedings terminated

Education in Ougola—The third unurrenty of the Tescher's Assectation in the Gragol Engage was held in the Jugenment Hell recently under the presented of the Landsmann Hell recently under the presented of the Landsmann Hell Recently under the Presentation of the Landsmann Hell Recently under the Presentation of the Landsmann Hell Recently of the Landsmann Hell Recently of the Section 1997 of the Presentation of the Read of the Presentation of the Landsmann Hell Recently of the Landsmann Hell Recently of the Read of the Landsmann Hell Recently of the Recently of the Read of the Landsmann Hell Recently of the Recently of the Read of the

The public marting commenced at \$30 r x After the sural prayer, the Secretary of the Ongle Trackers' Association, read the Annual Report of the worker all Association, in the Ongole Bases. Mr. K. Ramakrushna. Rao. Paritule Gara. I method to the andicese or the Control of the andicese or the Control of the Annual Report of the Annual Repor

South India Teachers' Union, Makras—The General Revisary ut the South India Teachers' Union writes that he addressed a letter on the Schithan Committee of the Committee of the Committee of the Victory, requested that us submit to His Letellenery the prayer of the Union for the statution of a Provident Fund and for old age pension for the Committee of the Committee of the Committee of the is the ray with reflectance in your letter, dated the form —"With reflectance in your letter, dated the 26th November 1913, addressed to the Private Secretary to His Excellency the Victroy. I am desired to asy that a scheme for some provision for the old age of teachers not in pensionable service is under consideration by the Government of Judia."

Zenana High School, Hyderabed -The enunal prize destribution of this institution took place recently Mrs. Pinhey presided and gave sway the prizes. A delightful progremme was gone through Miss E. A. Evans, Lady Principal, read the School Report from which we learn that there has been a atendy increase in the number of punits and the atrangth in 192 against 93 of last year. Two pupils appeared for the High School Leaving Certificate exemination last April and one did very well. She secured a good sertificate and is continuing her studies privacely with a view to taking her degree in the Madras University. Two appeared for the Middle School Esamiostion and both massed. A annil of the School, Juffri B gam, one who has been in school sines bee childbood and who took her H. S. L. certificate to 1911 has this year been anpointed Secretary to the School, a post which she fills very well H. H. the Nizim's Government have sanctioned Rs. \$9,000 for anlarging the actool building near Hossein Sekhar gurden.

Bathar Day Calebration — All the schools is the Presidency need closed on the 12th instant in honour of the Anniversary of the Darbae Day and decorated with Union Jacks and other flags and some of them gaves treats to their children. Interactional protein the president protein the president protein the president protein the president protein the competed for the prises offered to them closured the and of the april. Prises offered to them closured to the prises of the prises of the prises of the control of the prises of the prise

Popli-Teachtr's Association, Calicat—We have received the anoust eyept of the Association which is attached to the Gererument Training School, Calicat. All the popli-teachers in the various grades of the Government Training School, Calicat, State of the Government Training School, Calicat, Line of the California Calif

CALCUTTA!

Bowherer High School -The annual prize-diste-botion of the Row Barar High School came off recently at the school premises under the presidency of the Hunble Mr Justice E. P. Chapman, M A. I.C S. The achool building was testefully decorated with green foliages and flurs. There was a large stiend. ance of quardians reducationists and elites of Calcutta. The Headmaster Ribn Rejendra Nath Ghosh, BA. read the annual report of theschool. Then followed the recitations which were highly appreciated by the sudience. Then the President distributed the "theaden Medal" to Master S. Mukarico who stand first among the successful students of this school in the aggregate and in Sanskrit, the K. L. Choch Medal to Mester N. Mukerii who stood first in English among the angressful students of this School at the Mateignistion examination of 1912 and 45 pris a consisting of valuable and useful books to 46 meritorious boys of the school Then the President popuratolated the school committee on their successful management and the teaching staff on the uniformly good University results.

Chakdaha R. L. Acedemy.—The prize-distri-bution ceremony of the Uhakdaha Rem Leli Academy recently took place to the compound of the acbool. The school building were a gay ap-pearence. Mr. S. C. Mukberjee, L.C.S., the District Megistrate of Nadia, occupied the cheir. There ween large attendance of ladies and gentlamen The Assistant Secretary reed the econal raport which showed how the school from samell beginning has developed into a first class English School and referred to the epicodid gift of Ra 4,000 of Babn Ram Lell Singh, a wealthy resident of the locality. Bubn Janaki Nath Hhatta. charjen, M.A., Prolessor, Ripon College, addressed the meeting, He congratolated the Managing Committee on the success that has attended their labours and dwelt on the dignity of the schoolmaster. Miss B. M. Bose then addressed the meeting. Her speech was very highly appreciated and she was wermly received while she apoke. Babn Satish Kumar Benerice, M.A., Headmaster, Mittra Institution, Celcutta and Babu Brojendre Nath Baserjee then addressed the atudents, the latter refravoug to the apleedid gift of Babn Ram Lall Singh. The Chairman io a nice bute speech congratulated the Managing Committee on their solid work and wished continued good luck to the school.

The Iodian Science Congress —A provisional pregramme Las new been drawn on for the Indian Science Congress which is to be held on January, 13, 16, and 17, 1914, to the come of the Anistic Society of Dengal, 1, Park Street.

H. E. Lird Cormichael is the petron, and the lical Committee is as follows: -Dr. N. Anandele, Mr. J. Copin Brown, Dr. P. Bruhl, Lt. Col. S. C. Barrard, F. R. S., Mr. C. C. Galder, Dr. V. A. K.

Chrestio, Dr. E. P. Herrison, Mr. H. H. Hayden, Prof. P. S. MacMishon, Hou. Justica Sir. Aslatosh, Makhery. Sir. R. N. Mukheryeo Captein G. L. Peart, Prof. J. L. Simonsen, Hon Starolery and Tressurer, Mr. D. Hooper Indian Massem.

The provisional programme is as follows—Thereday Jacouary 15 10 30 as as to 1 pm Opening address followed by reading of papers or Chemistry, Physics and Geology 2 30 pm Reading of papers 4:30 pm Reception of delegates. 6 pm Illustrated Licture on the Syriso Christians of Cochin

Friday January 16, 10 30 s m to 1 pm Reading of papers on Zoology and Botsny 2 30 pm Reading of papers. 4-30 pm Garden Party on Moscom Compound

Saturday Japanery 17 10 30 a. m to 1 p m Reading of papers on Edinography 9 30 p m Conversazione in Indean Mussam

Papers and Lectures have been promised by the following —

Ohemietry: Dr O Schulten Prof S monace Prof

Mr B C Datt, end Prol MicMahon

Physics Prof V H Jackson Mr C V Ramac, Dr J O Bose Gerlegy Dr P Brabl Mr E Vredataborg, Batany Dr P Brabl Mr P Muthasij Zcology Dr N Abasadale Mr T Sonthwell Capt. W.S Pattor Lt. Cl. J Manpers Smith, Mr F H. Gravely and Dr T H Bishop

Ethnography & Mr J Coggio Brovin and Mr L. R. Anentha Krishne Alysr (Cochin) Sobscription (flye rupeses) should be sent to the Hon Secretary.

Petas University fitts—His Excellency the Viceroy recordly waited the site of the purposed Paues University and Consequence of the purposed Paues University. The Viceroy was accompanied to the site of the purpose of the viceroy was meet by Mr. and the purpose of the purpose o

Patta College —The next pl ce be visited was the Pates (the E. Elle Excellency was meeb pt the Pates (the E. Elle Excellency was meeb pt the Processed of the Pates (the Pates of the Pates

Engineering School Bhisr.—The cent piece he wasted was the Bisher Engineering School which is under the clarge of Mr. Wallford. The Vereray who seemed to be outning, wisted the class rooms and laboratories and was much interested in all he saw. Both here and at the Patra Callege the students were drawn up and gare the Viccoro three claser.

ALLAHABAD

Christ Chapel. College — Tae Soul Gabet sig of the College Institute took place receipt ring of the College Institute took place receipt Tae Sight Reversed the Lord Sinhop of Luck now, the first Principal of the College, was present throughout Several old atodects were present and swrited prince. The Bishop, the Fine operation of the College of the

Kayastha Pathhala—The somed prace distribution of the Kystala Pathhala took place at Tobbil Too Pathhala spanning to Tobbil Too Pathhala pensing was reversately decorated end prescribed a gay appearance. The gathering consusted must jot the torates, said and stodents of the college, Among those present work My Junice Tobbil, Mears, Mackanne with the Carbon Mackanne of the

The proceedings commenced with the reading of the progress report of the Pethebale by the President of the metitation. The report deals with the history, progress and present position of the mattention The report beving been reed, Mr. Justice Todbell distributed prizes which consisted mainly of books. After the destribution of the prises, the President, the Hon Mr. Justice Tudball, ma few well-chosen words antograed the gift of the founder saying that gift for the epreed of education was the highest form of cherity and the founder, although a telker by profession, was a men of real action. The breef speach concluded with congretulations to prizewinners and appreciation of the progress of the Pothshala.

C. A. V. High School-New Building opened,—The opening ceremony of the new building of the local City Anglo-Vernarular High School on Cauning Boad was performed by his Honoor the Lieutenant-Gorseor.

Wie Hooppe said , it was a pleasure to him to join that ceremony, and the pleasure was enhanced by the fact that he received the address at the hands of his old friend Rai Sanwal Dan Bahador. His Honoor congratulated the Presideet and members of the Allahabad Education Socialy on the soccess of their labours. They had rather a hard struggle in carrying the toron of learning in this city amid circumstances of great difficulty. His Honour fully appreciated the natriotiem and paperceity of the donors whose names were mentioned in the address and which greatly contributed to the success. His Honour also refurred to the necessity of locating schools in healthy quarters and warmly enpreciated private soferprize in the matter of the extension of secondary education.

MYSORE.

Principiving at Baldwin School.—The principle of the Sadar I be Baldwin Blad School took place in the Blad School took place and the Blad School took place in the All Rough I Good School took place in the School Blad Schoo

Proceedings were ioitiated by the Rev. J. B. Dolvirkic with prayer, after which an oratorical content took place between two of the assistations to the prize being alfodged to Allred Bean. Mr. Buttrick read the Principal's Report, and this was followed by a speech from Mr. Cox. It was rather out of the bester track of such manily conventional etterancer. He spoke at considerable length on the practical side of data child. Theresties Mrs. Robinson gave away the books and medala, axialted by the Rev. A. H. Coates, the Principal, who made interesting comments now and again on the prowass of the recipients.

St. John's Church Schools -There was a second attendance in the St. John's Church School Hoom, when the annual distribution of

prize to the pupils attending the Day and Sundoy Schools took place. Lady Flora Prope then presents at large ambier of prize to the bappy winners and when this item of the programme came to an end Mr. Hacking called upon ell to show their appreciation of Lady Poore's goodcesn in coming there and giving away the prizes, by according but three hearty cheers. Lady Flora was cheered to the echo and the sieging of the National Anthem brought to close oee of the brightest functions in St. John's Schoul.

Maharani's College.—R. E. Lady Haidings eccompanied by the Varseria, Mr. Wood, Miss chowres, Grant Tod and Captain Bennor visited the Maharani's College, Mysore. Hier Recellency was met by the Dawan, the officiating Ledy Soperituded and and others, and was condected to the lectors come wife. Eccallency of months of the College of the

Lidy Hardings then presented the prizes, after which a farewall song was song followed by God Save the King.

TRAVANCORE.

Government Orders.—A som of Rs. 3,000 has been granted by Government to supply H. H. the Matarajah's College with the requisite furniture, and Rs. 50,000 for the Elementary Schools for the same purpose.

The Educational Director has recommunded to Government tha payment of an allowance of its, 100 to Miss D. H. Watts, Principal of the Girls' College, Trivaudram.

The Govarnment have sanctioned Rs. 12,000 for getting down books for It. H. thu Maharsjah's Collega Lubrery.

A meeting of the Travancese Government Text-Book Committee was held on Saturday, the 18th instact, to consider and select Text-Books for use in the Elementary and Secondary Schools of the State for the easing year 1914.

COCRUS.

A Prize-distribution - The distribution of prizes to the aucoceasful students of the Convent School at Etthurch as welt as the laying of the corner alone of a new block of buildings to be called "In Highness Set Rome average Shabipoorthis Memorali Hall," took plesse recently To perform to these functions, In Highness the Rayah had will be seen the second of He Highness and He Highness about report on the working of the Schol flow before the pest year was read which showed that the attendance disease and mistrate of the school for the pest year was read which showed that the attendance floance and mistrations were salies factory. His Highness was then requested to distribute the prizes after which an oddress, exclused to a much breatful silver casks, was read, and prescuted by the Missager asks, was

His highests accompanied by a faw of the prominent general them went to the pince where the foodstion stone was the policy with the pince where the foodstion stone was the policy with the pince and to general wash to policy was the near the foodstant stone wall and trop lead. The pince the foodstant stone wall and trop lead. The pince which at the foodstap was the near pince which at the foodstant stone was the pince with the foodstant which are the pince with the pince which at the pince with the pince which are the pince which are the pince with the pin

CEYLON.

The North Ceylon Educational Association—The Annual General Meeting of the Association was held at the Jaffas Central College. The meeting was well attended in sputs of the includent weather. The Rev G J Trimmer, the President, occapied the chair

The Secretary (Mr. J. K. Chemmakem, B. A. L. T.) reported that after a presidence work (1911) the Association between the residence work (1911) the Association between the secretary Bett the Association had continued to the secretary Between the Association had been accepted by the Education Association had been accepted by the Education Association had been accepted by the Education accepted by the Educa

tion to be submitted to the Director of Education for approval by the Ceylon Board of Education

The Office heavery on force of control of the year of the the year 1913 to the control of the the year 1913 to the great of the year of ye

Mr C K. Swammenthan, an then mored a resolution on the place of the Veraculets in Secondary Schoola. The meeting was unsufmently and amphatically of appoint that the mostly and amphatically of appoint that the alternatives in the course of the place of the than English presented for the Combridge Janora of Seasor School Crit School Saughiations, and a resolution was praced that the Director of Ediscription of the Combridge Combridge of the the Gertrament to accurately accurate the the Gertrament to accurate the concession from the Gertrament to accurate the concession from the Gertrament of Combridge

The Rev J II Dickion introduced the memoral presented by the Versuclear Tescher's Association to Ille Facelleney the Governor and unveil that the Association do India for support to the memoral. It was resolved that the Gorro the memoral in the resolved that the Gorro was the control of the India for the Indi

of the Association what lurther action, if any,

The Rev. G. G. Browne, B.A. presented the deaft of the memorial un the subject of the University College and higher education, prepared by the Sub-Committee appointed an 23rd October. This evoked great cuthusiasm in its discussion and was finally accepted with slight modifications. The Association walcomes the Government's proposal to establish a Model College in Colombo has hopes that the institution will be modelled on Castern lines to suit the special needs of the Corloness and that adequate familiate will be provided for the sludy of the Vernaculars and Oriental Classics. It deprecates any monopoly in higher adacation by the Govecoment and concludes by asking the Government to allow students of other institutions astisfying conditions laid down by the Education Department to present themselves on coast terms with University College students to all exemivations and to be entitled to all certificates diplomas, and scholarships to be awarded so the results of such examinations.

The meeting closed with a vote of thanks to the cheir.

INDIA (GENERALL

Indian Students in England .- Mr. C. E. Mailet's annual report gives details of the increasing activities of the ladian students' department in manifuld ways. He catimates the number of atadauts now in the United Kingdom at between 1.000 and 1.700. Of these 141 are nader the guardiacabin of his department. One of the chiel difficulties is to provide for the increased number of Engineering students facilities for practical work. He points out that many English students have to reek such lacilities abroad, and says it is nufortanala that students desiring stitustely to make rastways, bridges and roads, lears India where upportunities stiet, for England, where opportunities are more rurely found. It would be a great assistance, adde Mr. Mailet of Rails are and the Patlis Works Department in India nosti affed Indian ets dente each factities which are as difficult to obtain bare. The expenses of the year, chargeable to Indian Morenzea amount to £3,973, which, Mr. Mallet sale is mit a peach brice to bed if it contin in sending buck to ladia, as leaders of she yearger generation, a body of well-squipped, well educated mes with many friendships to Kugland and every rusan to commit their animatenous bere with freldede ted messern

SCHOOL AND COLLEGE SPORTING

Inter-carnity Uricket.

Though the idea of an inter-varsity match was money about 10 rests aco. it was not tell this year that the proposal was seriously considered. The angenation emenated from Madras, as in former years and Principal Covernton set about forming a strong and infigential committee and succeeded very well. Justice Heaton, the Vice-Chancellor. was elected President of the General Committee. and Calonel Street, President of the Selection Committee with the representative of the Elphinstone College as Hop, Secretary. The Selection Committee included representatives of the various Colleges who had animitted the names of likely candidates. It had also power to add to its number and Mr. H. D. Kanna, Mr. C. V. Mehta and other mall-known corcketers were invited to inin their canb.

Manna College v. Mariest College

A match between teems representing the local Madras Colleges and moinself Colleges took place on the Madras United Clob grounds. Play commenced at 11-45, and the local Colleges winning the tees, poin in the visitors to bat. The match caded in an easy win for the local Colleges by four wickness and I tunes on the first incines.

Madras University of Bounay University.

In the former, the University was left winners by

The latter which had been awaited with considerable interest came ofton the M. U.C. ground. Long below the communication of the match, a large crowd was present at Chippain and great excitement prevaided, as the secre stood at Junch, Medrag was certainly act in a promising position, the total of 5t for a start, being rather poor.

With only \$8 runs in the first innings and 15 for 1 writes in the accord, as against a total of 13 runs made by the visitors in their first innings, the terms resumed their accord innegs shortly siter 11 of clock.

The dismissed of Vercataraman judy who was given cut is. If. W. to Marrana followed shortly after with the secre analyzed. The dismessed of inverse who for the secred time was given cut is. If. W. to Pread, with the total as IP was a great shock for the Madresse. These two rather activationally disasters.

evdeutly demorshard the team Just now, when all hopes of the boursaters arong themselves from cufest where home she and the state from cufest where home shandowed Yana and Gurckland came to their resuce and this total bustly Ranseam fast and the unsters holding for the first time came fast and the unsters holding for the first time to the state of the st

Braides Mr Green, there were present Mr Mark Hunter, Professor Anderson and Professor Kale of Bombay, Mr James Short and Prof Stratham

M U G w THE BOMBAY UNIVERSITY

A two days match between the storp teams was been on the 100 ground. The homesters treed on 1 very stores team The visitors bad made some silenting in the same whole played for them the same them the same them the same that th

INTER SCHOOL SPORTS

Bungalore.

The annual later Shock Sports of the Language Schools of Baugalors were brought to a conclusion schools of Baugalors were brought to a conclusion on the Blabop Cutter School play ground There which it is presented for which the contests, which is presented to the schools the record for the races jump panel fer, though the record for the races jump panel fer, though the record for the races jump panel fer, though the record for the races jump for

At the conclusion of the sports, Mrs A R Corpresented the preventation, Mr Cox made a few runs required to the preventation, Mr Cox made a few runs; compensation of the preventation of t

Madura

The annual Gymussics competition among the High School, the District, for the trophus awarded to the school of the lines at the same and labor students by the Madara inter and Athletto American, was beld in the grounds of the Schopath High School Only far High School of the district had entered, but every event in the programme was keeply con

tested The programmo consisted of five evenle for the numers and five for the seniors Mesers. Ross Clarks, A. D. Hickey and R. S. Robioson were the judges.

The Inter School Sports competition was beld in the Ropole a Fair Sports and St. Sports and St.

Mes Harley, who of Copians T. W. Harley, I. V. S. Destrect Motions and Sanitary Officer of Madera, gare away the prices to the wineers of the swrite restea that day, as also to the wineer of the saveral content of the fall of the saveral content of

Meladar

The Maisbar District Inter School Sports were held on the West Hill maiden in the pressure of a large number of specietors

The institutions which took part in the different competitors were the Zamerin's College, B. G. M. College, Nature Sight School and St. Joseph's Enropean Boy's High School Calent. Victoria College, Paighs, Englash, Bayes High School, Kollengode, Breant Unitry and B. G. M. Paret High School, Tellecherry, and Manaupal High School, Tellecherry, and Manaupal High School, Canadors.

The evente went off very encousafully

M C A Association, Football Leagus

Pachattappa o Wesley A very one sided game was witnessed to the retard

match between the shore teams played on the SIAA ground, the Pacharrappa's completely outplaying their weak opponents and scoring the cerical of victories, by 6 goals to mil.

LAW COLLEGE v MEDICAL SCHOOL

The return match between the above teams was played on the S I A A ground The Medical School appeared in their full strength, while their opposition were handlespiped by the shience of three good players. The Medical School won the match by 6 goals to nil

PRESIDENCY WESLEY COLLEGE

The Presidency College played their return metch with the Weslay College on the Presidency ground.

The score sheet was blank during the interval On the teams crossing over the Presidency College improved, and the play ended in a win to the home toam by 3 goals to mit.

PROPERTIES P. TEACHESS' COLLEGE

The return match between the above Colleges. the return makes persecuted as suche confeges, rather one sided, and the visitors had most of the olay, winning the match by 4 scale to 1.

Teachers' College, Samper of The Royalvran Manieur Semont

The return match between the above teams was played at Saidanet, Play, though not particularly last was none the less very interesting to watch, the teams being very evenly matched. The Teachers accred a surprising but none the less thoroughly deserved win by one goal to mil.

Manical Courses w. The ROTATURAN MEMCAL Schoot The share teams met in their rature fixture on

the Medical College ground. Very great spicreat was control in this match and consequently an unnevelly large growd turned out to withers it. match ended in a win for the Medical College by 2 quale to mil.

PACHAITAPPA'S S. ENGINEERISS COLLEGE.

Toe return match between Fachaivappa's College and the Engineering College, was played on the

Properties ground. The Engineers won the match by two goals to nil.

MEDICAL W. TRACHERS' COLLEGE The match, which was posted on the Medical

erround was not played, at the Teachers' College did not tuen ont and the Medical Culture were declared -ioner

Discourage of Courses of The Postschill Mantaux Menons

The shove teams, met in their return fixture on the S. I. A. A. ground. With both aides at full steenoth, a fast and exciting game ensued. Play took a very interesting turn almost from the commoncoment, both goals being in danger elternately. The metch ended in a draw, one ell.

Parsingues a Exciveration

One of the most interesting matches to connection with this tonenament was played on the Presidency College ground between the above teams. The play throughout was fast and even so that when time interrened the match was left drawn, one coal all.

Tracerst Courses, Suppers a Tue Wester COLLEGE.

The return match between the above teams took place in the namel course at Saidanat. The Trachers who won the first match by the narrow mergin of one goal won this match by double that mergin, but as a matter of fact, the Waslevane put up a decidedly better Subt to this came, heving had a very feir share of attack without unfortunately *coring

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CHAPTER L

A. General processival modern. B. birafgit ince and places. C. Parallel straight lines and straight lines and places. Thropeoton of a straight line and planes passible to a plane. F. Propeeding of a straight line on a plane plane of a straight line on a plane plane of a straight line. On blooking single planes. The substraint discussion between two straight lines. G. Dibellia single planes are planes of the straight lines of the planes are planes and the straight lines. G. Dibellia single planes are planes and the straight lines and straight lines are planes and the straight lines and straight lines are planes are planes and the straight lines and straight lines are planes are planes. if. Tribelral angle. M. Deinten of the Tribelral angle. CHAPTER II.

A. Pristas and Pyramide. M. Cylinders ad ours. C, The sphere, CHAPTER III.

A. Meaniscreent of exclusion. B. Volumes of solvin. C. Genius of proportional distances; Centre of gravity; Onidar Docress, D. Similar Spures. E. Begular polybodrona. Lharmme 23 Plates.

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Part III alone-Ra. 12. Palphetrus,

The Educational Review

The Allahabad
The Allahabad
annual University was beld on the
15th of Nuvember The
15th of Nuvember The
16urble Dr. Sundar Lal,

Vice Chaucellor, delivered. es usual, the Convocation Address. In the Madras University the Convocation Address 18 delivered by some Felluw selected by the Chancellor, as a compliment, and of late years the Madrae Convocation Addressee have been distinguished by the commonplaceees of the centiments expressed. The "well-cetablished oustom" at Allahabad requires the Vice-Chancellor every year "to present a short resums of the work done during the year, and to deal with some of the more important educational topics which interest the Fellows." This procedure may very well be copied by the Madras University and then the Madrus Convocation will become a living function and not be, as now, an empty ceremonial, se which handreds of people are packed up in on atmosphere recking hot and made to listen (s & if the voice of the gentleman who delivers the address can be boree to their ears, which is very seldom) to sapient advice that young men should leare good maeners, according to the European coevection, though they have little chaece of meeting Europeaca in society, that they shoeld learn to speak aed write faultlessly, though this is a fest impossible to most of them, etc The Allahahad Address in very interesting because it tells us what the University has does during the year, what it wents to achieve ie the future and what are the problems that exercise the ingounity of the Fellows

Fer and away, the most interesting ques-

tion deceased by Dr. Snedar Lal is the position of the "Vernacolars" is Usiversily
studies. In using the term "Vereacolars"
we immate certain members of the MadraSonate and mean by it not the languages
spoken by the people, but the clusted
dialects used in books and the Snukert language. It would seem that the Allahabad
University has in the followed the land of
the Madras University and has arranged that
"Englah is the only subpect which is
compilately for every candidate to take op

It has thus become possible for a student to take the degree of Bachelor of Arts with out studying any more of Mathematics than what is prescribed for the Matricolaluco Eramination or to take the degree of Bachelor of Arts without knowing any classical language. Thus has been satisfa as of-mooded subpect of animated dabate in which that motion for the change now adopted was oftrepelled by a small majority of votes."

Dr Sundar Lal discusses this result not in the hysterical epirit adopted by half-a-dozen Fellows of our University who are always trying to speet our University arrangements and stay the natural progress of our Uesscreety stedies and take it beck to actiquated coeditions, but impartially aed like a responsible efficer of the University He recognizes that it is ac evil that "it has become possible for an Indiae studeet to take his degree without kenwing much more about his veruscular than what he might have picked up on hie mother's lap, and except for the third paper in English to the Matriculation and the letermediate Examinations be need not keew the vereacelar at all." But he does not want to remedy this evil as the Hen'ble Mr. T. V. Seebagiri Iyer aed his followers to the Madras Seeste would do by

This is reprinted elsewhere in full in this mana.

lowering the efficacy of the Science degree and making the Madras degrees much inferior to those of any other University : for he says. "I am also aware there are considerable difficulties in finding a place for the vernaculars in our already crowded University Corrients and that room can only be made for them by taking out some other part of the course. But there seems to me, as at present advised no serious difficulty in the way of arranging for a thorough grounding in the vernacular in our schools A thorongh grounding in the current remaculars (the italies are once) is more apparently part of the school course, while a critical study of them, their growth and development from a historical and philological point of view. might more fittingly be left in the hands of the University."

We welcome the pronuncement of the Nemah Hon'blo Swed The President of the Indian MohammedSahebBahadnr. Canthis year's President of the gress on Primary Indian National Congress held at Karachi-so much in a line with what we have ad nauseam proved in these columns-that primary education "is the remedy of remedica that will help the masses at present steeped in ignorance, apperatition and lethargy, to get out of the alongh of despond, and will teach them self-help by placing within their reach, through the medium of the over-growing literature, the benefits that would accens from adopting modern methods and principles in their bereditary and time-hallowed occupation of agriculture and other amall industries; and will surely mould in them a frame of mind that would co-operate with the Government in any measure that may be taken for public

good, by removing the inclination to attribute wrong motives to the intentions of Government as regards their particular acts and manning " He advanted that the Government abould adont proent measures to introduce compulsory education among the people and urged that the political fears entertained by Government as regards the adoption of the principle of compulsion were imaginary and that the people would welcome the imposition of a Primary education cess. We congratulate the President, National Congress, on his enthusiasm. He noted with pride what steps the Baroda and Mysore Governments and latterly Travancore bad taken to ansh on compulsory Primary education and proed the Paramount Power to follow in their foot-steps. He also experted the Government to pay more attention than hitherto to technical education. The time would soon come, perhaps sooner than most people imagined, when the financial resources of the country would be soon strained to the utmost to cope with the problem of the noor and the submerged. The Government should therefore make a serious attempt to push on industrial and technical education by onening new schools and he subsidising at least some of the industries. We are very glad that such a clear exposition of our educational needs has been pronounced from the presidential dais of this year's Congress and thay will be urged and urged till all the demands are granted by the Government of India. The needs of higher education were not referred to in the speech, possibly from a feeling that the special grants recently given to the various provinces were enough gnarantee that the Government was alive to them.

In a recent number we referred to the

The Correction of Secondary Schools to Board of Education in England has issued a cir-

color on this adhect (Circular 826) One uniforcenting remark in that circular runs as follows —" The relation hetween the secondary school and the technical achool is materially effected by the increasing wide spread conviction that even the general adoestion of boys and girls will gain in effectiveness if their work at achool is to some extent brought to direct connection with their probable occupations in after life." Another remark that applies equally well to adoestional work hore is this. "In the middle and higher forms time to often wased

by the inclusion in the syllabuses of much that is reall; unessential to the neglect of what is of capital importance" Science teachers of our High Schools have, whenever they had a chance, strongly nrged that the Physics and Chemistry syllshoses provided for the Secondary School Leaving Certificate schems are "impossible" ones Criticisma have been passed on the syllabor of English History and of its position in the scheme The Director of Public Instruction is to us what the Board of Lincation in England hence we sak how is it that when the Board of Education in England realizes that its chief work is to issue every now and then circulars intended to guide school teachers in their teaching and in their organization, the Director of Public Instruct un, with us is so out of touch with educational opinion that he cannot realize the deffi culties which school teachers feel and does nothing remotely resembling what the Board of Education does to develop education

Since the Director of Public ın England Instruction has become the monthpiece of the Government in the Legislative Conneil, his principal function has become to mollify the honourable members of that Council and as the masters of our Secondary Schools can never hops to enter that Conneil and wield a vote, this breach hetween the D P. 1 and what we concave to be his main workbeing in touch with the work of Secondary Schools-is hound to widen more and more We regret that it should be so When the Secondary School Leaving Cortificato Board was first organized, it was believed that the Board would appervise Secondary School education, would do what the Board of Education does in England, issue circulars expounding methods of teaching, principles of organ zation, and pointing out defeots of school work as it scinally obtains in schools and remedies therefor But very soon after the Board was orested, it hocams apparent that at was merely another Board of Examiners, that it was but a Metriculation Framination Board write large The University Matriculation Board was bad enough in its day, hat though that Board could not conceive secondary education but an a stepping atone to University education, it at least secored the hest solerests of the few that went on to the University, But now that the partially wholesome influence of the University on aroundary education has been cut off, secondary education is not controlled and guided by any responsible person or persons who feel it their primary duty to foster it. So nor curricula, our time-tables, and methods of teaching, our principles of discipline in fact, all the work of our Secondary Schools has to muddle along without expert help or guidance.

Returning to Circular 826, we notice that " modified specialization is the key-note :" specialization in Science and Mathematice particularly, as also specialization in art. economics and domestic courses is contemplated as suitable work for schools, of course with provision for the continuance of general education. Latterly we have had some carping criticism of specialization in achools; we wish to point out to such critics that, according to the Board of Education's circular, the main portion of the school work. riz. the study of science, theoretical and practical, should extend continuously over four years. "This will be required in all schools unless special reasons to the contrary can be given." " Boys who are working in preparation for

an advanced conrectin classics may have a science conrec for three years finatead of four) between the ages of twelve and sixteen. if this course be supplemented by the incluslop of science among the apheidiary achiects taken at the specialising stage." In the case of schools where pupils normally enter not later than the age of ten and stay till the age of eighteen or later, hifurcation may begin in the fourteenth, i.e. fone years before the school course ends, is, our III Form. Where practically pupils enter all at the age of twelve, alternative courses should be established at the and of the first or second year, one leading to the University and the other modified by a vocational bias. All

this proves that specialization in our High Schools does not begin one moment too soon. It is now recognized on all hands that bandwork is an invaluable Handwork in the Secondary means of developing the . School.

brain. Working in cardboard, wood and metal is besides intimately connected with art work, especially modelling

in clay and design. The dexterity, moreover, developed in manual work will also be serviceable in science classes which now are organized on the sound basis of experimental work done by pupils. Moreover in the manual work classes, the nunils are from the beginning trained to make some finished object. This stimulates their inrontiveness. Another not very remote but very baneficial effect of the handwork in achool is that it may dayslon in some the desire to become craftsmen and thus to reduce "the over-valuation of brain-work in general throughout the whole community, so that we have the spectacle of a nation, in which two handred and fifty men will apply for a vacant nost as a clerk at a poor salary while large tracts of land are anoultivated for lack of capable workers." This heing so, it will be worth while asking what the Madras Educational Dapartment has done to encourage the introduction of handwork in our schools. We can answer this question by quoting an incident. There was once an Inspector of Schools who happened to see in one of the schools he was inspecting manual work anthusiastically taught. He immediately bonght a working bench and a set of tools so that be might lasen the work himself and thus qualify bimself not only to inspect schools where bandwork was taught but to he able to guids intelligently other schools where he could get such teaching provided. And the raward of such enthusiasm was that he was instantly transferred to a College to lectura on Chancer and Shakespeare ! To commemorate the celebration of his

eightieth hirth-day, a com-Presentation of mittee of the former sinbust of Sir Henry Roscos to dents of the Right Hon'ble

Society.

the Chemical Sir Henry Roscoe, beaded by Sir Edward Thorpe,

. 99

presented his bust to the Chemical Society. In a felicitoos address presented to him the great chemist was reminded that his "chemical grand children "now carried on the great work conducted by him in the discovery of chemical truth Though it is now twentyseven years since he resigned the chair of chemistry at Owen's College, which has now become the University of Manchester, his influence as a teacher and a friend in still so strong as to unduce his former pupils to exhibit their devotion to the master in this pleasant form. The address was signed by about 140 of Sir Heory's former students, many of whom now occopy responsible posttions both in scademic work and in chemical industries and are to-day distributed in all parts of the United Kingdom, in Germany, Russis, Canade, the United States of America, Anstrelis, and Japan But not in India, where men of the calibre of Roscoe's students are not likely to stray, but where Roscos is known only as the author of a primer in chemistry, which was prescribed as a texthook for the Matriculation axamination, but the examiners always broke their bounds and messacred the Innocente

Witness after witness, before the Royal
Commission, has deposed
to the Reblit School
aystem proportion of officers in
every department of public

service for men who have andergonn training in the Legish public schools and Universities. We have never had the opportunity to see for conselves any school conducted exactly under the conducts of as English public school, but, judging them from the hand of men they send forth to serve the Leapire and from what we have needed that we whave nothing but admiration for the Legish public.

he anhool eystem, so much so, that in our last number we speke in approbation of Priocipal Griffitha' proposal to extend the system to elementary schools and advocated that edunational salvation lay in going further and further from the system of judging by exami nations and approximating to that of judging papils by the work done by them in schools. Hnw is it, then, we ask, does not the Educational Department out here open one solitary school for Indian boys and work it as a model public subcel? We quite recognize the fact that the average Indian parent likes to have his acce at his bonse and to get him educated as a day apholar ancceas of the Madras College Hostels in partially deunding mofussil colleges clearly andmates that there are parents enough in India who sufficiently recognize the value of boarding schools to support half a dozen such in each Presidency It is the president duty of Government to lead the way by opening madel public schools-one at least for each great language-division of the Presidenty Kumbakooam, Waltair, Bangalors and Palghat would be nucellest places where the experiment can be tried pursonally know of many parents, esp cially those who occupy the higher places in the public services and who are transferred from place to place once in three years who would welcoms such schools.

It has been held, especially after Nacsea's well known drift on the New Hand north of Siberia the North Polar region, that there was 10 possibility of nakonwn laed being discovered in the ocean north of Siberia. This has hen fislated by the discovery by the Russian tee hreakers, Tannyr and Yungdis whach has boon, now for sometime, doing

hydrographical work in the sea north of East Siberia. The newly discovered land lies between 90° and 100° E. and on both sides of 80° N. This new land is an island like Novaya Zemlya or it forms an archipelago like Franz Joseph's Irud, It is curious that so many Polar adventurers, Nordenskild, Nansen, Baron Toll, have rounded Cape Chelyaskin 30 to 40 miles due south of the newly discovered land but nover asspected its existence or that they were thou going along a narrow strait and not the Arctio Ocean.

We have great pleasure in drawing the attention of our readers to A Munificent the oift of ten thousand Donetton. rupees made by the Hon. Mr. P. Ramaravaningar, M.A., Member of the Imperial Legislative Council, to the University of Madras, for the encouragement of the scientific study of Telugu language and literature. The announcement was made on the occasion of H. E. the Viceroy's laying the foundation of the new University Library during his recent visit to this city. The scion of an ancient aristocratic house in Southern India, and himself a distinguished Telugu scholar, it was fitting that the first important donation for the encouragement of vernaculars. under the auspices of the Madras University should have been made by bim. The era of expansion and improvement on which the Madras University has now embarked, has till now met with very little of practical sympathy from the public. The recent bistory of the University of Madras is not distinguished by any instances of princely generosity on the part of the rich land-owners and moneyed aristocracy of the Presidency, from whom help might naturally be expected for

an institution striving to spread learning and

culture in the land. The Universities of Bombay and Calcutta have been enriched within the last two or three years by endowments amounting to several lakhs, and it is some consolation that a beginning has been made here with the gift of the Horble Mr. Ramarayaningar. There has been quite an outcry in the Presidency that the vernaculars have been neglected; that they must be made subjects of compulsory study in all the College classes and so on. But the public which seems so insistent on these demands has not demonstrated its carnestness, by any such instance of sacrifice as that which is now furnished by

The purpose which the Hon'ble Mr. Ramarayaningar has in view, in entrusting the University with the amount, is one which must be commended very highly, by all real lovers of culture. Nothing of great importance is gained by ensuring a superficial study of vernaeular elassics by all the under-graduates of our University, The mere interpretation of linguistic obscurities, and the ceaseless repetition of the fanciful and over-wrought passages found in the old commentators, cannot advance the cause of vernacular studies in any effective manner. The application of the principles of Western criticism to Oriental literature, and the study of Oriental languages in the light of the recent investigations of linguistic phenomena, have not yet been done in any appreciable degree for the vernaculars of Southern India. The benefaction of the Hon'ble Mr. Ramarayaningar will serve to start such work under the guidance of the University, at least in connection with one of the important languages. The donor is eminently fit by his scholarship in Telugu, to advise the University on the details of any scheme which it may think of originating in

connection with his gift and we have no doubt full advantage will be taken of his knowledge in the subject. We have only to hope in conclusion that the example set by this generous and public spirited. Zemindar will be followed by the landed aristoracy of this part of Indias so as to enable our University to enter upon the new era of increased useful ness which it has set before itself, with the inspiration of strength and wide spread support.

The welcome news has been announced that

The Madras Corporation the Government of H E the Viceroy has gener

ously given up its claim on the Corporation of Madras for the annual contribution of Rs. 50 noo paid by the body to Government If the decision relieves the Cor poration of some of its financial pressure it has also brought with it a new responsibility that of spending an annual sum of Rs to oco on schemes fraught with the largest good to the rate payers of the city. We appreciate the zeal with which a Commissioner has precipitately suggested that it must be utilised to reduce the taxation in the Municipality But he must see that a responsible body like the Corporation cannot proceed to reduce faxation immediately on the receipt of such a benefit It cannot lay the flattering unction to its soul that it is fulfilling all the duties imposed upon the Corporation of a civilised country to such a degree that it can only think of reducing the taxes, when there is such a windfall. To those who have watch ed the working of the Madras Corporation, nothing is so apparent as the neglect of its duties to education. It is a subject that seems to trouble the busy heads of the Com missioners at very rare intervals, and the amount that is spent by the Corporation on the item is so little that it does not certainly deserve to congratulate itself on it. The

building of a few, new elementary schools has been spread over several years, and the work is being done with even more than the con templated slowness. The percentage of illi teracy is so appalling that a considerably larger number of elementary schools in various parts of the city are urgently needed to effect any educational progress. Again, the time has also come to think seriously of s scheme of free elementary education for the A few Municipalities in India have already made a beginning in the direction and there is no reason why the Corporation of Madras should not also think of it, unless if be that some of the Commissioners have yet to feel and be convinced of the benefits of education The best way of utilising the 50,000 Rs that the Corporation will find in its hands year after year is to spend it on the diffusion of elementary education in the city. The Commissioners may bear in mind, the wind fall is due to the generosity of a Viceroy, who has the interests of Indian education deep at his heart, and who will be handed down in the history of this country for his invaluable services in its eause. Such a decision will enable the Madras Corporation to fulfil in a more adequate manner one of the primary duties of a civilised local body, and also earn the gratitude of thousands of its future citizens led from darkness into light. We hope the Commissioners will realise the imperative nature of the demand and start a new era of educational expansion in the annals of a Corporation which has not done anything appreciable for it in the past.

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No 301-C.D.
GOVERNMENT OF INDIA
DEPARTMENT OF EDUCATION.
Dalki, the 21st Fabruary 1913.
Resolution.

EDUCATIONAL POLICY OF THE GOVERN-MENT OF INDIA.

Concurrence Systems of Encoarios.

His Most Gracions Imperial Majesty the King-Emperor, in replying to the address of the Calcutta University on the 6th January, 1912, 2 id:-

- "It is my with that there may be spread over the lead a network of tehools and callengs, from which will so forth loyal and manly and useful interns, this to hold their can in infeatures and agriculture and all the receivable in life. And it is may be brightened and their labour sweatned by the spread of knoeledge with all that follows in its train, a blighte level of the open of the level of the callengs of the level of the callengs of the spread of knoeledge with all that follows in its train, a blighte level of the open, of comport and of breith. It is through education that my wird will be set to be spread of knoeledge with a spre
 - 2. The Opperament of India have decided with the approval of the Secretary of State, to essirt Local Occeraments, by means of large greats from Imperial recraves as funds become evaluable, to attend comprehensive exclore of education in the several provinces. Each procince has its new educational avetem, which has grown to under local conditions, and become familiar to the needle as a part of their general well being. In view of the digarge social conditions in India there cannot in practice be one set of regulations and one rete of progress for the whole of India. Earn within processes there is scope for greater variety in types of institutions these exists to-day. The thorsement of India have no draine to centralise provincial systems or to stiempt to introduce a superfloial undurmire Sull less do they desire to deprers Ireal Governments of interest and initiative in education. But it is important of interrule to review educational policy in India an e while Prisriples, bearing on educate m in its bes escipioce prebres tebes bes atropa teles conceptions on orientalis and on the spacial needs of the consoled community, were discussed at three imputes to evaporation tratment and reergiatice americiciale beld within the bes sen years. These principles are the basis of accepted paley. How for they can at any time find local

application must be determined with reference to

THE NEED OF THE PERSPECTIVE.

5. The defects of educational systems in India. ere well-known and need not he re-stated. They here been ferrely due to went of fonds. Of late years there has been real progress in removing there In the last decade the total expenditure from all sources on education has rised from han seremelly great since Lord Chrann's poverne mans introduced large messages of educational reform. In the last four years the number of those under instruction has increased from about 54 to 64 millione. Again, the formerly crushing weight of examinations has been appreciably lightened: w commencement has been made in the reform of Theirsenty and college presumation; and the greate from public funds to pricate institutions bave elemes doubled in the past nine years. These facts could be the property of the great hanefite, which education has conferred on India. be ignored or minimised. Criticism based on imperfect enclogies is often noiget. It is not just. for instance, to compare Indian evelemental for the most part in their infancy with the malured evereme of the modern western world, or to dieregard the influences of social organization and mentality. Again the outmon charge that the higher education of India has been built up on w slender foundation of popular education and that ire teaching seency is proficient, is one that mucht have been levelled against avery country in Europe at some period of its history. Indis is now passing through alegre taken by other countries in their

FORMATION OF CRANACTER THE MAIN OBJECTIVE.

4. In the forefront of their policy the Gozennment of ludis desire to place the formation of the character of the achidars and under-graduates under twition. In the formation of character the is ficence of beme on the personality of the teacher play the larger part. There is resson to hope-in the light of organied experience—that Increased educational faculties under hotter educational conditions will accelerate social reform, spread female education and secure better teachers. Already much extention to being given to religione and moral education in the widest sense of the term, comprising that is, direct religious and moral instruction, and indirect agencies as he monly sorist or emiler systems, tone, social his, traditions distriction, the besterm us of environment, bysune

^{* 1/4} ladt to 1911.

and that must important side of reacution, physical pulture and organised recreation,

DISECT RELIGIOUS AND MORAL INSTRUCTION

The question of religious and moral lastruction was discussed at a local conference held in Bombey and subsequently at the Imperial Confarance held in Allahabad in February 1911 Geare differences of opinion emerged as to the possibility or advantage of introducing direct teligious instruction into schools generally and apprehensions of difficulty in the working of ony definite system were put forward Doubis were also carresard as to the efficacy of direct moral instruction when divorced from religions serctions. In the matter of moral teaching, however, the d Mculties are on doubtedly less than in the case of religious teaching The papers laid before the conference indicate that not e little morel instruction le sleredy given in the ordinary text books ord to other ways The Covernment of Bombay are engaged apon the preparation of a book routaloseg moral illustrations, which will be placed in the hands of trackess in order to assist them in importing moral metanction Excellent matricels for ethical teaching are assisshie in the Mahabberets, the Ramayans portions of Hells, Sadi, Monlana Ruml and other classics to Benekrit, Arebic Persion and Pell The Govern. ment of India while bound to maintain a position of complete nentrality in matters of religion observe that the most thoughtful minds to India lement the tendency of senting systems of education to develop the intellectual et the capanae of the moral and religious faculties. In September 1911 they invited Local Covernments other than the Bombey Government to sesemble foret com-mittees in order to consider the whole question. Such committees are still at work in some provinces For the present the Government of India must be content to watch experiments and keep the metter prominently in view Enlightened opinion and accumulated experience will, it is hoped provide e practical solution to what is unquestionably the

e practical solution to what is unquestionably the most important educational problem of the same isdustrated Agencies, e.g., Hostels, School-Britinges.

Tastitions, are

6 There has been rest progress of late years or the prorison of hotele. In the lass decade the numbers this of hoteles and aff renders me interest that of hoteles and aff renders were considered to the control of t

boys are held, that dehating and Interary societies are becoming more common. All these require help which will in many cases best be organised in connectron with the hostel system Much has also been done of late to Improve school buildings ; but e large number of thoroughly unanitable, not to say meen, equalid and insantary buildings still saist to India These will be replaced, as funds parmit. by modern buildings designed upon sonitary lines and with a slaw to avoid overcrowding and to facilitate the maintenance of discipline. The Goterament of India hope that the time is not far distant when educational buildings will be distingulahed as the most modern and commedicus buildinge in the locality, and scholars in India will have the advantages in this respect of actiolars in the West. The influence for good of close well arranged buildings with the concomitant domestic discipline can scarcely be ranggerated

firstrer.

7 The claims of hygiene are paramount not pull an the interests of the children themselves, though these ere all important, but also se an object Irason to the rising generation. Bitherto went of fauds end she spathy of the people have been responsible for the comparatively small attention paid to by siene. In some provinces e simple course of justruction in hypiens is prescribed, at some period of the school course, but the lessage ere often of too formal a type, are out connected with the life of the pupil and fell to form his behits ur to enlist his antelli-gence in efter-life in the struggle egainst disease. In some areas there is e general inspection of achool premises by a madical authority, but it is believed that little is done for the individual inspection of echool children and that medical advice has not always been collisted in regard to the length of the school day the framing of curricule, and such matters. The Government of India commend to Local Governments a thorough enquiry, by e small committee of experts, medical and educational, toto ectool and college bygiene. The scope of the enquiry will no doubt very in different parts of Iodia but the inliawing seem to be important matters for inrestreation -

(i) The condition of school houses, hostels and other places where pupils reside, from the point of view of sanitation

view of sanitation
(ii) The professional examination of building
plans from the bygienic point of view

(wi) The introduction of a simple and more practical nourse of hygiene; whether it should be a compulsory subject in the versions achieve of School-Leaving Certificates, and whether it should be recommended to Universities as part of their Matriculation extensions.

(rv) The mepcotinn, where possible, of male acholers, with special reference to infectious diseases, eyesight and majoria.

is) The length of the school day, home-studies, and the effect apon health of the present system of working for formal examinations.

(vi) The requirements in the wey of recreation grounds, gerdens, gymnesis, reading rooms, commenrooms, etc.

(vii) The inspecting end administrating egency required, the possibility of co operatice with existing prespirations and the provision of funds.

OTHER CARDINAL PRINCIPLES OF POLICY. 8. Other cardinal principles of policy may here

(1) The steedy raising of the standard of existing iestitutions should not be postponed to increasing their number when the new institutions cannot be efficient without a better-trained and better-poid teaching staff.

(2) The scheme of primary end secondary education for the average admiar should steadily, as trained techners become evailable, he directed to more practical ends, e.g., by means of manual training, gardesing, out door observation, practical teaching of geography, school exensions, organised torps of hartmetion, etc.

(2) Provision should be made for higher stodies and research in Iedia, so that ledian students mey have every facility for higher work without heving to go abroad.

Reseasest.

9. The provision of facilities for research cannot be postpound. In aimost every bracch of science and the erte in philosophy, history, reography, language, literature, ecocomics, ecolology, medicine, pohilo beath, erginuluras biology, goology, botsay particularise more closely, there's a wida untrodden sidd swaling research. Among the essecties ergod libraries, laboratories and collections, ample leisurs and freedom in study, systematic collatories and research to the companion of the engaged and the simulations working of many minds no numerous but toterdependent branches of research. Only when they know the methods of research by which the knowledge they are is impartillating the control of the engaged control of the en

PRIMARY EDUCATION, CONFULSORY AND FREE

EDUCATION NOT PRACTICABLE.

10. The propositions that litterary must be britted now not that Frinary Education has, in the present circumstances of India, a predominant claim upon the public funds, represent accepted policy on longer poon to discussion. For financial and adjusted the contract of t

can pay them are now devoted to the meintenance and expansion of Frinary Education, and a Intal raminsion of frees would involve to a certoin extent a more prolonged postponeance in the provision of schools in villages without them. In some prolonged expension of schools in villages without them. In some provinces determined the school of the school of the province of the school of the province of the school of the prolonged them are the school of the principle of free elementary in the spiritude of the principle of free elementary odnestice amongst the poorer and more beckward exclusive than the population of the principle of free elementary odnestice amongst the poorer and more beckward exclusive that the population of the principle of free elementary of the principle of the school of the principle of free elementary of the principle of the school of the principle of free elementary of the principle of the school of

Belwaer Properties Grupper PRINCIPLES.

11. For geidesce in the immediate feters, with the precessry modifications due to local conditions the Government of India desire to ley down the following principles in regard to Primary Education were.

(i) Subject to the principle etated in paragraph (i) Supper, there should be a large expansion of lower primary achools traching tha three R'e with drawing, knowledge of the village map, nature-study and physical exercises.

(ii) Simultaneously upper primary schools should be established at soitable centres and lower primary schools should where necessary be developed into upper primary schools.

(iii) Espansion should be secured by means of board schools, except where this is feancially impossible, when sided schools under recognised management should be encouraged. In creativate interest biberal sobsidies may advantageously be given to maketale, suthrales and the like which are ready to undertake simple versucular reaching of general moveledge. Relances about on he pinced upon the maketale particular and the proposition of the proposition.

(iv) It is not practicable at present in most parts of India to fave any greet distinction between the carrients of rural and of urban primery schools. Basin the latter class of schools there is special ecops for practical teaching of geography, acbool acceration, etc., and the nature study should write the service and enter the company with the servicement, and enter a trend of simply in the servicement of t

(4) Teachers should be drawn from the classification they will teach; they should have passed the Middle Vernacular Examination, or bearings to corresponding course, and should have indergone year's training. Where they have passed through an Orresponding course, and should have made greatly the upper primary course and have not already bad sufficient experience in a school, a temp year's course of training is generally desirable. This training may in the first instance he given in small local institutions he preferably, as fonded

permit, in larger and more efficient central normal schools. In both kinds of institutions adequate practising schools are a processery adjunct, and the a ze of the practising school will generally detoemics the size of the normal school As teachers lefs to themselves in villages ere liable to deteriorete there are great advantages in periodical repetition and improvement courses for primary school teachers during the school vecetions.

(vi) Trained teachers should receive not less then Rs. 12 per moeth (special rates being given an certaic arces), they should be placed in a graded service, and thry should eather be el gible for a pension or admitted to a provident fund

(vii) No teacher should be called on to fastruct more than 50 pupils ; preferably the number should be 30 or 40; and it is desirable to have a separate teacher for each class or standard

(vin) The continuation schools known as middle or secondary verpsculae schools should be improved and meltiplied

(ix) Schools should be housed in senitary and

commodions but inexpensive buildings 12. While laying down these general principles the Government of India recognise that in regard to Primary Liducation conditions early greatly in differsus procunces. In the old province of Bengel for instance, where there is already some sort of primary school for a little over every three square miles of the total area of the province, the multiplication of schools may very well not be so urgent a problem as an increase in the attendence and an improve ment in the qualifications of the teachers. In some parts of India at the present time no teacher in a primary rel onl gets less than 12 repers a month. In Burma all cends una are different and monestic echnole are an imports of feeture of the organisation D firent problems again present themselves where board schools and aided schools respectively are the besse of the eystem of Primery Education Nor monat it he supposed that the plcy laid down so these general terms for the immediate future hinte the sepirations of the Government of ladis or the Local Governments. Indeed the Government of Indie hope that the day is not fee distant when teachers in primary schools will receive coca detably higher remuneration, when all teachers will be trained, and when it will be possible to introduce more modern and clastic methods in primary

VESSACULAR CONTINUATION SCHOOLS

13. Vernacular ecotinuation schools are the only entrance to mere advanced atudy which does not damend acquaintance with a fore go language, and it is in them that competent teachers for primary schools will be prepared Technical and industrial progress also is likely to create anmerous openings ine men with a good vernacular education. In certain provisces owieg to the popularly and chrap ness of English education these institutions have declined. But in the whole of India in the last drawds the number of schools has increased from 2.135 to 2 665 and that of their scholars from over 177 000 to close on 257 000 The Government of Ind a believe that these schools will become much more popular and useful when they are placed on a sound footing, they slee think that it would be se adventage if on advenced vernecular course could be provided at selected centres for students desirons of becoming teachers in these continuation schools

In some provinces approisi classes have been epened in ercondery English schools for scholars who have been through the whole course at a cernacolee continuetion school in order to reable them to make on ground to English There is much expersence to the effect that acholers who have been through a complete vernaenlar course are ex ceptionally efficient mentally. The Government of India recommend arrangements on the above lines to all Local Governments and Administrations which have not already journdaced them

PROPOSED EXPANSION

15 It is the desire and hope of the Government of India to ere in the not distant future some 91 000 premery public schools added to the 100 000 which already exist for boys and to double the 42 millions of pupils who now receive instruction in them I of pueposes of present calculation a sum of Re 375 per annem may be taken se a rough approximation of the probable average cost of membersance of & primary board school This figure provides for two teachers one on Rs 15 and one on Rs 12 per mouth and Rs 4 per month for the purchase of books and stationery, petty repairs, prixes and for necessary contingencies. This is, however only an secrego figure for the whole of India In India as a whole the average cost of a board or municipal school is at present Re 315 per annum In Bombay the average cost of a primary school under any kind of managemeet to now about Ra 437 but this figure includes the cost of the higher classes which in come other provinces are closed so middle or secondary cerns. cular cleans

EDUCATION OF GIRLS.

16. The education of girls remains to be organize ed lo 1904 the Goeeroment of Judia remarked that peculiar dificulties were enconstered in this branch of education owing to the social enstoms of the people, but that as a ter greater proportional impulse is imported to the educational and moral tone of the people by the education of women then by the education of men, libral treatment had been accorded for gule in respect of scholarships and fees This policy has been continued Efforts have been also made not without suc ess, to bring education, through the agency of governessee within the reach al purda ledies to merease the number of ledies on the prepecting staff and to replace male by female teachers to Government and aided schools mamber of gris under sestruction bas risen from 444 470 in 1901 02 to 864, 363 in 1910-11 Bnt the total comber still remains mergerficent in proportion to the female population. The Government of India believe, however, that in certain areas there are indications of a swittly growing demand for a more avenuing education of sirls.

17. The immediate problem in the education of girls is one of a social development. The existing customs and ideas opposed to the education of girls unique and the education of girls will equival affects bendling in different parts of the education of girls and the education of girls will be social education of the education of

(n) The education of girls should be practical with reference to the positive which they will fill in social life;

- rn acciss life;

 (b) It should not sack to imitate the education anitable for hops nor should it be dominated by examinations:
- (c) Special attention should be paid to bygiene end the surroundings of school life;
- (d) The services of women should be more freely enlisted for instruction and inspection; and
- (a) Contionity in inspection and control should be specially aimed at
- 18. The difficulty of obtaining competent schoolmateriases is left anothy in many parts of the
 concetty. In this connection it has been angested
 that there is a large opening for women of the
 domiciale community, who have a knowledge of the
 rerescular and who might he specially trained for
 the portuge.

SECONDARY EXCUSUS EDUCATION.

- 19. The importance of accordary Brylinh and in particular of High school education is favoreching, but also a secondary and a secondary also a secondary also as of all professional or indoarried training in India. The inferior conjust of accordary alcohol invades colleges and technical institutions and hinders tha derivopment of higher education At a Althabad Contrevens the Directors of Publin Land Althabad Contrevens the Directors of Publin as a condary English achords as the most argued of educational problems. The importance of accordary English education has for sums time occupied the attention of the Government of India and the Local Governments and it is hoped in the analysis of the Control of th
 - 30. In the last ofee years the number of arcondry schools has becreased from early £000 tower £5000 the number of scholars from £52000 to the £5000 the number of scholars from £52000 to £5000 the £5000 t

ever degree of withdrawal from the direct provision of education might he found advisable, there should be no relaxation of indirect but efficient control by the State. The admistors of private management and State control was again emphasized in the recoloring of 1904. To this policy the Government of India adhere. It is dictated not by any belief in the inherent apperiority of private over State management but by preference for an catablished avatem and above all by the necessity of concentrating the direct spargies of the State and the holk of its available resources upon the improvement and exnantion of elementary education. The nolicy may he anomarised so the encouragement of privately managed schools under suitable hodies, maintained in efficiency by Government inspection, recognition and control, and by the aid of Government funds.

21. Some idea of the extension of private enterrise may be reined by the reflection that, of 3.852 high and middle English echools, only 286 are Government institutions. These Surges however, cover many types of schools, from the most efficient to the least afficient. Admirable achools have been and are maintained by missioneries and other hodies. But the underlying idea of the grant evetem, the anbvention of local organized effort, has not always been maintained. Schools of a money making type, ill-bonsed, Ill-engineed, and run on the chespest lines, have in certain cases galand recognition and studed the control of inspection. Schools have appage into saistence in destructive compatition with neighbouring Institutions Physical health bas been neglected and no provision has been made for snitable rasidential arrangements and playfields. Fee rates have been lowered : competition and lazity in transfer bays destroyed discipline: teachers have been employed on rates of pay loanfile event to attract men capable of instructing or controlling their pupils. Above all, the grants in aid have from want of fonds often been inadequate. No fewer than \$60 high schools with 80,247 populs are in receipt of no grant at all, and are maintained at an average cost of less then bulf that of a Government school, mainly by fea-collections. Especially do these conditions prevail in the area covered by the old provinces of Bougel and Eastern Bengal and Assem; e rusult doe, no doobt, to the regid extension of English education beyond the shiling of the Local Governments to finance it. . In Bengel and Esetern Bengal the number of high schools le greater than in the rest of British India put togetter, and the cost of their maintenance to public fonds is proportionately less than a third of the cost. prevailing in other provinces. A special enquiry aboved that oot of some 4,700 teachers in privately managed high schrols in these areas shout 4,200 were in receipt of less than Ra. 50 . mouth, some 3,300 of less than Ba. 30 a month while many teachers of English and classical languages drew arlaries that would not attract men to superior domestin service. The great variations in corditions in different parts of India point to the difficulty of making soy hat the most general statements should

Matricolation

702

the results of private anterprise and the special measures that are needed to assist it to perform afficiently its work in the adventional average

efficiently its work in the educational system
Secondary English Schools, General Principles.

- 22 Subject to the necessities of variation in deference to local conditions the policy of the Government of India in regard to secondary English schools is—
- (1) To improve the few existing Government schools by-
 - (a) employing only graduates or trained teachers;
 (b) introducing a graded service for teachers of
- English with a minimum salary of Ra 40 per month and a maximum salary of Rs 400 per month,
- (c) providing proper boatel accommodation,
 (d) introducing a school course complete in itself with a staff sufficient to teach what may be called
- the modern side with appear attention to the development of an bistorical and e geographical score, (s) introducing mesonal training and improving actence teaching.
- (2) To increase largely the grants in sid in order that sided institutions may keep pace with the improvements in Government schools on the above-mentioned lines, and to occorage the establishment of now middle until those where uccessary
- (8) To multiply end improve training colleges so that trained teachers may be available for public and private institutions
- (4) To found Government schools in such focalities as may, on a servey of local conditions and with due regard to sconomy of educational effort and as pease be proved to require them

GRANTS IN AID

33 The Government of Leducal an desire that the granton and rules should be made more claims to so to enable such a should be made more claims to so to enable such a should which is recognised as necessary and conform at the presented associated as necessary and conform at the finement, to obtain the special substitution of the substitution

Modeon Sins

24 The introduction of a school course complete in uself and of a modern and practical character, frast from the domination of its Matriculation animation was recommended in the first metapoc by the Education Commission of 1884 In some by the Education Commission of 1884 In some

provinces end perticularly to Madras real progress has been made towards the accomplishment of this reform. The figures for 1901 02 and 1910 11 are.

School Final

688

1901-02

Madran and Coorg Bombay Leited Provinces Central Provinces	(candidates) 194 1162 52	(candidates) 7,683 3,781 1 704
1	910 1911	
Madran and Coorg Bombay United Provinces	7,817 ^a 1,350 946	762 3 765 2 205

In other provinces the school final communition has not yet been established escept for special purpose. The total number of candidates in 1910 H for the school final examination or leaving certificate in all British provinces was 10161, that of condidates for Marinologiou was 16,582.

Central Provinces

SECONDARY EVALUSIS SCHOOL LEAVING CERTIFICATE

25. The prompt dypert of the school fand arsumatons are adoptability for the corress of safety
and avoidance of cram. In those promotes no whole
an school final seamonston or achool lawing certain
cate has not been introduced the Government of
loads dears that it should be continued as soon as
loads dears that it should be continued as soon as
Local Governments and Administration further
developments of the system or regard to the charmter of the tests by which carridents are granted as
the end of the school course. Baffor proceeding
these pranciples had down by the Index Guirest
three pranciples had down by the Index Guirest
three pranciples had down by the Index Guirest

- "(1) The conduct of a school final or other achool examination about do regarded ea altogether outends the inuctions of a University
- (2) In would be of great benefit to the Universities if the Guerromen would direct that the Matricola tion examination abould not be accepted as a preliminary or foil test for any post in Government service. In cases when the Matriculation examination qualifies for admission to a professional examination the achool final examination should be substituted for it.
- (3) It would be advantageous it the school final summeation could, in the case of these boys who proposa to follow a University career, be made *efficient test of fitness to enter the University-Failing this the best arrangement would appear to be that the Matricolation candidate should pass in certain subjects in the school final examination, and be atamined by the University with regard to any

[.] Hehool leaving cartificate,

further requirements that may be decided acces-

96. The value of external examination cannot be overlooked. It sets before the teacher a definite aim and it maintains a standard ; but the definite aim often anduly overshadows instruction, and the standard is necessarily narrow and in view of the large numbers that have to be examined must confine itself to mere examination achievement, without regard to mental development or general growth of character. On the other hand the drawbacks uf external examinations are becoming more generally apparent, and attention was prominently drawn to them in the Report of the Conenitative Commistee on Examinations in Secondary Schools in England, They fail, especially in India, in that they sliminste the inspecting and teaching staff as factors in the system, that they impose all responsibility upon a body acquainted but little (if at all) with the schools avenined, that they rely moon written papers, which afford no searching test of intellect, no test at all of character or general ability, and that they encourago cram.

27. A combination of external and internal examinations is required. The Government of India consider that, in the case of a school recountsed as qualified to present condidetes for a achool leaving certificate, a record should be kent of the progress and conduct of each popil in the highest classes of the echool, and that the Inspector should enter his romarks upon these records at his visits and thus notein some acquaintance with the career of each candidate during the two or three years before examination. These records together with the marke obtained by namile at school state, would be valuable and would supplement a test conducted partly through written papers on the more important subjects of insurnetion, but also neally and with regard to the pupil's past career. The oral examination would be conducted by the Inspector in consultation withmembers of the staff. A large increase in the enperior inspecting etaff would be required to work a statem of this kind and safeguards would be necessary to protect teachers from ondue influences; the Government of India are prepared to ascist, with such grants se they may be able to afford, the introduction of any such system which may be locally practicable. The school leaving cartificate systems of Madres and the United Provinces folfil many of the requirements of the reform in view, but their precise characteristics may not be found altogother anitable in other areas. Some such system, bowaver. as has been sketched above, adapted to local conditions, would, it is beliaved, be most beneficial and do more than anything else to foster a system under which scholars would be taught to thick for themsolves instead of being made to memories for assemination purposes. Next to the improvement of the pay and prospects of teachers, which most accompany and even preceda its introduction, this is perhaps the most important valorm required in secondary Englub education,

TECHNICAL AND INDUSTRIAL EDUCATION.

98. No branch of education at present evokes prester public Interest than technical and Industrial instruction. Considerable progress has been made been pyerhapled and conjuged for new conreca. Scholarshina tenable in Europe and America hava been established. Thanks in the concreeity of the Tata family, seconded by liberal financial aid from the Comment of India and His Highness the Mahas reis of Mysore, an Indian Institute of Science. designed moon a large coals, has been established at Bangalore; it was thrown open to pupils in 1911. The establishment of a Technological Institute at Campoon for the chemistry of engar manufactura and leather, for teatiles and for soids and alkalies. has been sanctioned. Industrial achools have been opened in several propinces. Although her the number of technical and industrial schools has risen since 1904 from 88 to 218 and the number of pupils from 5.072 to 10.535.

Transical Scholarships.

29. The rysion of ischnical scholarships teachig shroid is rill on trial, and a committee is examining the whole question in England. It is not slawny enter that the property of the property of the removing them from the antironauch of Indian trade conditions. From the information available it appears that, of 72 scholars sent abroad, 36 have that the control of the property o

CO ORDINATION IN TECUNICAL EDUCATION.

33. The policy to be pursued in regard to technical ead industrial education was discussed at the Allahabed Conference, The Government of India scept the conclusiors of that Conference that progress should continue along the lines generally followed bitherto. viz. that—

(I) the ledien Institute of Science, which provides for retearch, the application of new processes and the production of thoroughly testined managers, should be developed, as opportunity offers, and become eventually a complete faculty of pure and applied acience;

(2) the larger previncis institution, which attract students from different parts of Indie, and stard instruction in practical methods of mesagement and appearation, aboud in the first instance specialisations fluste converging on local industries—a plan the start of the property of the previous of the property of the previous of th

(3) the leaver industrial schools, minor wearing lestitutions, and of the schools of art as leave an industrial bent, the artisen clesses in Bengsl, and trade schools generally, should be permanently dirroted toward such industries as exist in the localities where the institutions are situated

TECHNICAL EDUCATION ON COMMERCIAL LINES.

The question has arisen as to how far educational matitations should develop on commercial lines It has been decided that while educational institutions should in no osse trade on commercial lines in certain cases instruct on in industrial sel cole may be supplemented by preciest training it work shot a where the application of new processes needs to be demonstrated In certain cases also, at will be processery to purchase and maintain experimental plant for demonstrating the advantages of new machinery or new processes, and for secertaining the data of productice

INDUSTRIAL OPENINGS FOR INDIANG

32 Quits recently Lieutenant Colonel E H College Boorkes, and Mr T S Dawson Principal of the Victoria Jubiles Technical Institute Bombey. were deputed to and tire how technical institutions can be brought into closer touch and more practical relations with the employers of labour in India. Their repost conts na many enggestions which are under consideration and emphasizes the necessity of studying the demand for technically-trained men, of attracting Indian capital to industrial enterprise and of supplementing tuition at collega by a perind of apprenticaship It also indicates that while the field of employment or occupation in the highest grades is at present limited, the outlook for Indians is generally hopeful, provided the necessity for preliminary pract cel training is folly real and

SCHOOLS OF ART

33 There are four Government schools of arte in Iodia with soma I 300 cepils, of which two are mainly iodostrial schools or schools of design Interesting developments ora the rise at the Colonta institution of a new school of Indian prieting, which combines Indian treatment of subjects with western technique and this foundation of au eroft tectural branch in the inelitation at Bombay But much remains to be doos in connection with the indigeoons art indostries. This matter requires careful expert consideration. The Government of India will address Local Governments on the aubject and for the present content themselves with advocating the importance and presery of tresery ing for sed in India se entifically arranged collegtioes of the products of its ansient and modern arts and crafts. Tos understanding and appreciation of eastern art-work in Furope and America is draining good spreimens in increasing volume into the public collections of these continents,

Musrius

St. The relation of museums to the educational systems of India was discussed at the Corference held at 8 mta in July 1914 Much valuable work has been done by the zoological and geological

sections of the Indian Moseum at Calcutta, which are now equipped on modern lines. The archeological section of the same museom has recently been re-organised under the direction of Mr Marshall Director General of Archaplogy In provinces outside Bengel also there has been good progress in the right direction, but in the case of most local museums there is need of bettes equipment and a stronger staff. One of the most procest nerde in It die is an ethnographic museum under accentific menagement designed to illustrate Lodion civil astion an its verted phases. Otherwire at odente in the future will be compelled to visit the muscome of Paris Berlin, Mni ich and other | laces in order to etudy subjects which slould elearly be studied brat on Indian soil. Il a Government of India will consult capert opinion on the subject, as at present advised they are inclined to favour the formation of a museum of Indian arts and atl pography at Delhi Their accepted policy, though some overlapping is anevitable as to develop local maseums with special regard to local interest and to concentrate on matters of general mierast to Imperial moseums Haw to make museums more perfel educationally and secura greater co operation between moreom authorities and educational authorities in a maiter on which they have addressed Local Governments

AGRICULTURAL EDUCATION 35. The present achema of agricultural education originated under Lord Corzon a government and in to fact only seven years and Previous to the year 1905, there was no central metitution for research or teaching and such reducation as was then imparted to agricultuse, was represented by two colleges and three schools in a more or less decadent condition Very few Indiana then had any knowledge of science 10 Ha application to agriculture and still fewer were capable of imparting such knowledge to others. In the year 1905 a comprehensive acheme was evolved under which arrangements were made both for the proctical development of agriculture by Government assistance and also for teaching and research in agricultura and subjects connected with it. A central matitution for rasearch and bigher education was established at Pusa. The estating schools sod colleges were reconstituted, improved and added to-Farms for esperiments and demonstration were started, and so time went up a change was effected to regard to agricultural education in its earlier alages As now constituted the scleme of agricultural adocation has three main features era. (a) the provision of first class opportunities for the h ghar forms of teaching and research, (b) collegiste edneation and (c, the improvement of secondary and primary education

38. The metitute at Poss, maintened at a cost of fone lakes a year, has 37 Europeans and Jodians on ite stell, engaged partty in research, partly in postgraduata education and the instruction through abort courses, of students or agriculturists in subjects which are not regularly treated in provincial institutions. There are now are provincial lostitutions, containing over 300 students and costing annually between five and six lakes of rupess. Practical classes for agricultarities have also have established at various control in several provinces. In the ordinary elementary schools, formal agriculture is not suggest; but in some provinces a markedly agricultural colour is given to the general markedly agricultural colour is given to the general

VETERINARY EDUCATION.

37. Voterinery research is carried on at the Bacteriological Laboratory at Mekteser. The sobrem of veterinery colleges has been theroughly reorganized since 1904. There are now foce such institutions, with 511 students, as well as a subool at Rangoon. These institutions meet fairly well the crowing demand for trained once.

FORWARD EDUCATION.

33. The College at Debra Den has eccently been improved; and a research institution has been established in connection with it. Indians can be obtain an education in forestry which approximates to that ordinary otherisable in Europa.

MEDICAL EDUCATION.

39. I ostraction is the western aretem of medicine is imported in five recognised colleges and fifteen recognised subcols in Bratish India. These now an-nually produce between six and seven bundred qualified medical practitioners. A Medical Registration Act has exceptly been passed for the Presidency of Bombar, under which passed students of such achools are entitled to become registered; and a similes Act is now under coorderation in the Presidency of Bengel. In Colcutta there are inner self-constituted medical schools, the diplomes of which are not recognised by the Government of India. Among recent developments may be mentioned the establishment of an X-ray institute at Debra Den, and the formation of post-graduate classes in connection with the Central Research Institute at Kasauli. These letter include training in becteriology and technique and preparation for special research; classes of practical instruction in melarial technique ere also held twice e yese at Amritaar under the officer in charge of the melerial burean.

40. Other projects are engaging the attention of the Gorramont of I edit, including the institution of college to the Gorramont of I edit, including the institution of the party of the I edited from the party of the I edited from the I edited fro

logy with a view to improve the teaching of that subject at the Madraa Medicar College. Other matters which are likely to come to the front additional date of the improvement of the delical College at Labore and its report of the college at Labore and its report of the provision of the Dacce Medical School and the provision of facilities for medical training in the

The subject of medical education is one in which the Garagement of India are deenly interested. It is also one that may be expected to appeal with anerial force to private generosity. A problem of particular importance is the indocument of ladies of the better classes to take employment in the medical profession and thus minister to the needs of the wemen, whom the purds system still deters from seeking timely medical sesistance. One of the bindespees hitherto has been that Indian ladies are able to obtain instruction only in men's colleges ne in mixed classes With a view to remedeing this defect and commemorating the visit of the Decen-Empress to Delhi, certain of the Princes and wealthy fandowners in India have new come forward with generons subsceintions in response to an appeal by Her Excellency Lady Hardings, who has decided to merge in this project her scheme for a school for training Indian narses and midwives. The Govern-ment of India are considering proposals to found a women's medical college and purses' training school at Delhi with the help of a sphrention from Government Proposals are also under consideration for essisting the National Association for sopplying famels medical sid to the women of India Itha Countess of Defferin's Fund) to improve the position of their staff.

LEGAL EDUCATION.

42. There has been a marked development of fegal education in the last decade. First it has been concentrated. In 1901 there were 35 institutions. collegra, classes and schoole, containing 2,800 stndents. At the present time there are 27 institu-The Medres and Bembay presidencies, Borms and the Central Previnces each possess single institution; and in Bengal the Instruction for the degree of bachelor of law bas been restricted to certain colleges, although other institutions are still recognised for the ples derebip exemination. A law college bee bees established on a liberal acule onega out occe etablished on a liberal scale under the University of Celental This concentration has resulted in greater efficiency and greater expenditure. In 1999, the cost to Government was a little over Rs. 7,000 and the total cost was 14 likbs. At present the cost to form continue is over E. 45,000 and the total cost to Gurerament is over E. 45,000 and the total cost over E. 283,000. Secondly the costess have been remodelled and in some cases lengthened. The Government of India will be glad to see an extension of the policy of concentration and improvement. They also desira to see soitable errengements made for the residence and guidance of law

COMMERCIAL EDUCATION

43 There has recently been a considerable expecason in commercial education. Nine years ago there were ten collegee with less then 600 students, end Government spent less than Rs 4000 upon these institutions. At the present time there are 26 institutions three of which are under the management of Government the envoluent is now over 1500 and the expenditure from provincial funds is over Rs 22000. The standard attained in the majority of these institutions is not, however, high, and the instruction given in them prepares for clerical duties in Government and business offices rather than for the conduct of business itself A project for a commercial college of a more edvanced typo in Bombsy has been senetioned and the Government of India are considering tha question of making arrangements for organised study of the economic and allied sociological proh leme in Indie.

UNIVERSITY EDUCATION

44 Good work which the Government of India desire to acknowledge has been done under conditions of difficulty by the Indian Universities and by common concept the Universities' Act of 1904 has had benefinal results, but the condition of University education is still far from satisfactory, in regard to residential errangements, control, the courses of study end the system of seeminetion. The Government of India here eccordingly again reviewed the whole question of University educalton.

APPRILIATING AND TRACKING UNITEDITIES

45 It is important to distinguish clearly on the one hand the federal University, in the strict sense, in which several colleges of approximately equal standing separated by no excessive distance or marked local individuality ere grouped together as a University-and on the other hand the affiliating University of the Indian type, which in its inception was merely an examining body, and, although limited as regards the area of its operations by the Act of 1904 has not been able to insist upon an identity of standard in the various institutions conjuined to it. The former of these types has in the past enjoyed some popularity in the United Kingdom, but after experience it has been largely shandoned there; and the constituent colleges which were grouped together have for the most part become separate teaching Universities, without power of combination with other metitations at a distance At present there are only 5 Indian Universities for 185 arts and professional colleges in British India besides saveral lustifutions in Ritive States. The day is probably for distant when India will be abla to dispose allogether with the affiliating University But it is necessary to restrict the area over which the affiliating Univerattes have control by securing in the first instance a separate University for each of the leading provinces in India and secondly to create new local

teaching and remdential Universities within each of the provinces in harmony with the best modern openion as to the right road to educational ifficiency. The Government of India bave decided to found teaching and vendential University at Dacce and they are prepared to sanction under certain conditions the establishment of similar Universities at Aligarh and Brussea and eleewhere as occasion may demand Thry also contemplate the establishment of Universities at Rangoon, Pates and Nagour, It may be possible hereafter to exection the conversion into local teaching Universities, with power to confer degrees upon their nwn students, of those colleges which have shown the capacity to attract etudents from a distance and have ettained the requiente atandard of ifficiency Only by experiment will it be found out what type or types of Universities are best soited to the different parts of India

HIGHER STUDIES

46 Simulteneously the Government of Indie desire to see teaching faculties developed at the seats of the existing Universities and corporate life encouraged, to order to promote higher study and create on atmosphere from which students will imbbe good eociel, moral end intellectual influences. They have elreedy given groute end hope to give furthee grants hereafter to these ends-They trust that each University will soon build up a worthy University library, suitably housed and that higher studies in India will soon enjoy all the esternal conveniences of such work in the west.

In order to free the Universities for higher work and more efficient control of colleges, the Government of India are disposed to think it deestable (in provinces where this is not elready the for purposes of presenting capdidates for metriculation in the hands of the Local Governments and in case of Nativa States of the durbars concerned while leaving to the Universities the power of selection from echools so ranginged. The Univeresty has no mechinery for carrying out this work and in most provinces already relies entirely on the departments of public instruction, which slove bave the agency competent in inspect schools. As teaching and residential Universities are developed the problem will become even more complex than is at present. The question of smruding the Universities Act will be separately considered.

48 The Government of India hope that by these davelopments a great impetus will be given to bigher studies throughout India and that Indian students of the fature will be better equipped for the battle of hie than the students of the present Reperation

Caters' Colleges

49 The chiefs' colleges advance in popularity. In developing character and imparing idras of corporate life they are serving well the purpose for which they were founded. They are also attaining steadily sucressing intellectual efficiency

but the Committee of the Mayn College, Aimere, have decided that it is nucessary to increase the Economic staff. The post diploma course has on the whole worked satisfactorily and there is now a movement no foot to found a senerate college for the atodunts taking this course. Such a college may in the intura become the unclans of a privaraity for those who new attend the chiefs colleges.

50. The grave disadvantages of sanding their children to England to be educated eway from home influences at the most impressionable time of life are being realised by Indian parents. Greenment of India have been approached unofficially from morn than one consection with a proposal to establish to ledis a thoroughly officient achool staffed entirely by Enropeans and conducted on the most medera European lines for the same of those parents who can afford to pay high free. No project is yet before thom hot the Government of India take this poportunity to espress their sympathy with the proposal and should andiciont funds he forthcoming will be glad to assist in working ont a practical scheme.

- TRAISING OF TRACHESS. 51. Few reforms ere more organity needed than the extension and improvement of the training of teachers, for both primary and secondary achools in all aphiects including, in the case of the latter achoris, aciaoce and priental studies. The object most steadily he kent in view that aventually under medern a ratemant education on teacher about a be allowed to teach without a certificate that he is applified to do so. Thurn are at present 15 onlieges and other institutions for the instruction of those who will teach through the medium of English; these contain nearly 1,400 students under training. Thors ere bid schools or cleases for the training of vernsonlar (mainly primary) teachers; and their stodents number over 11,000. The conrece vary in length from one to two years. The number of teachers turned out from these institutions does not meet the existing demand and is altogether insdrauste in view of the prospects of a rapid panansion of education in the near future. The Government of lodis desire Local Governments to examina their schemes for training teachers of all grades and to cularge them so as to provide for the great espansion which may be expected, especially in primary adacation.
 - As regards training colleges for secondary schools some experience has been gained. But the Government of India are conscious that the subject is one in which a free interchange of steen based on the success or failure of experiment is desirable. The best sies for a practizing school and the relations between it and the one college; the unmber of students in the chilege for which the practicing school can afford facilities of demonstration without Losing its character es a model institutions the nature of, and the most suitable methode of procedure in practical work; the relative importance of methodolgy and of psychological study; the beat

treatment of administrational history; the extent to which it is desirable and practicable to include muses in ambinet-matter in the scheme of training. aspecially contrast in new so blecks ench as manual tenining and experimental science; the points in which a course of training for graduates should differ from one for non-graduates; the degree to -bish the body exerding a diploma in teaching about the body wastering wellprose seconds of the etudent's work-these and ather unsolved questions indicate that the instructors in training colleges in defrance nects of India should knon in Louch with each other and constantly scrutinize the most modern developments in the west. Visits made by selected members of the staff of one college to other institutions and the pursuit of furloosh studies would essent nepectally likely to lead to neofol resolts in this branch of education.

PAY AND PROSPECTS OF THE STREETS

53. The Government of India have for some time had nodur consideration the improvement of the pay and prospects of the educational services. Indian. Provincial and Subordinate. They had drawn up proposals in ragard to the first two services and approved some schemes forwarded by Local Governments in rugard to the third, when it was decided to appoint a Boyal Commission on the Public Services of India. The Government of India recognise that improvement in the position of all the educational services is required, so us to ettract first cless men in increasing numbers, and while leaving questions of re-organisation for the consideration of the Commission are onceldering minor proposals for the improvement of the position of these services. They attach the greatest importance to the provision for the old ega of teachers, sither by pension or provident foud. Teachers in Corners ment institutions and, in some areas, teachers in schools managed by local hedies are sligible for these privileges. But it is necessary to extend the provision in the cases of board and municipal anguante and still more in the cases of teachers of privately managed achools, for the great majority of whom no such eystem saists. It is not possible to have a besithy mural atmosphere in any schools, primary or secondary, or at any college when the teacher is discoptented and anxious about the future. The Governor-General in Connect desires that due provision for teachers in their old age should be made with the least possible delay. Local Gurern-ments have already been addressed upon this anbject.

Enterior of the Domicileo Community.

54. The defective state of the education of the domicaled community has long been remarked.
Many auggestions has from time to time been made for its improvement. An infloential committee, presided near by Sir Robert Laidlew. is now collecting funds for the actions of all denominations except Roman Catholic schools. As in the case of secondary English education and for similar resons the policy has been so is, to rely on private enterprise guided by inspection and aided by grant from malls found. By Government of Indie have more bad on a least of changing their policy But in order to decrease whole questions and to obtain definite practical suggestions of reform they assembled an indirective conference at Small less Joly

- 55 The recommendations of the conference were mannerous and for receiving TLa Government of India are prepared to accept at once the year that the most argest received are the elections of those best stated as the content of the most argest received as the proposal to receive the proposal to receive the proposal to erect a trauming college at Rengalore with arts and connect clauses for graduate course with arts and council clauses for graduate course with arts and council clauses for graduate course and most has precu in far years to the grant of a greater non-hear of scholar halps to study about 50 areas to to Local Governments the grant of a greater non-hear of scholar halps to study about 50 areas to the content of the council of the proposal to the proposal to the council of the preference and the effects of school on the harman body, and the servers obtain the preference in the sight of the council of the preference and the study breakers to council of the preference and the preference and the study of the preference and the pre
- 35 The suggestion was put forward and inguly supported at the conference, the European action to should be centralized under the Covernment of from the fact that decembrations coupied Jupet from the fact that decembrations of the discovernment of policy of Gereromant the ourse of the discovernment of the convention of the fact of the discovernment of the convention of the fact of the discovernment of t

EDUCATION OF MUHARMADARS

37 The figures and general remarks would need in this fleeding one sy goars and apphenable loss of the present of expension of the present of

nearly 30 per cent But, while in primery institu tions the number of Muhammadana has actually vassed the propertion at echool of all gredes among the children of that community to a figure elightly to excess of the everage proportion for children of all races and creeds in India, in the matter of higher education their numbers remain well below that proportion notwithstanding the large relative in creese. The facilities offered to Mubammaders vavy so different provinces hus generally take the form of apecial institutions such as madraseas, bostels, echolerships and special Inspectors The introduction of simple vernicular conrecs into makiahs has gone for to opread elementary educa tion amongst Muhammadana in certain parts of India. The whole question of Mahemmadan education, which was specially treated by the Commission of 1882, is receiving the attention of the Government of India.

ORIENTAL STUDIES

58 The Government of India attach great im portance to the cultivation and improvement of oriental studies There is increasing interthroughout Judia 10 her encient civiliestion, and it se necessary to to restigate that civiliestion with the belp of the medium of western methods of research and an relation to modern ideas. A conference of dissinguished orienteliate held at Similarn July 1911 recommended the cetablishment of a central research institute on lines somewhat similar to those of L Ecole Franceies d Extrême Orient at Hanoi The que etion was disoneed whether receers could efficiently be carried on at the existing Umverzeties; and the opinion predomicated that it would be difficult to create the appropriate atmosphere of ormatal study to those Universities as at present constituted that it was desirable to have in one sostitution scholers working on different branches of the kindred sobjects which comprise orientalia and that for ressons of economy it was preferable to start with one tostitute well equipped and possessing a first class library The Government of India are molined to adopt this view and to agree with the conference that the central metitate should not be unlated that it should be open to students from all parts of India one that it should sa far as possible combine ate sotivities with those of the Universtates of India and different seats of learning The object of the mattitute as apart from research is to provide Indiana highly treiged in original work who will enable schools of Judian history and ercherolo-Ry to be founded bereafter, prepare satalogues tassenses of menuscripts, develop museums and boild up research in Universities and colleges of the different provinces Another object to attract in the courte of time Pandite and Mostless of ammence to the institute and so to pro-mote an interchange of the higher scholarship of both the old and the new school of crientalists throughout India. But before formulating a defi-ante scheme the Governor General in Connect desires to consult Local Governments.

Department of the August Learning.

While making provision for scholarship on modern lines, the conference draw attention to the processity of retaining separately the ancient and in-Algebra, evaluate of instruction. The world of acholerabin, they thought, would suffer irreparable loss if the old type of Pandit and Moulei were to din out before their profound knowledge of their subjects had been made available to the world, and auconrecement rather than reform was needed to prevent such an appuriments result Certain pronosals for encouragement were made at the confarence, rus :-

(a) grants to Sanskrit colleges, madrasans, fols. patshalas, maktabs, ponqui kurungs and other indigenous institutions in order to seapen better salaries for teachers and to enable students by fellowshins or scholarships to eserv their education to the highest point possible :

(b) the appointment of enecially qualified Inangotors in erientalia :

(a) the provision of posts for highly trained Pan-Ails and Mouleis

(d) the great of money rewards for priental work. The Government of India hope to see the adoption of measures that are practicable for the maintenence end furtherence of the encient indigenens avstame of learning and here called for proposale from the Local Governments to this and

ERPERTS REQUISED.

60. The functions of local hodies in regard to education generally and their relations with the departments of public instruction ere noder the consideration of the Government of India. Rot it is clear that if comprehensive systems are to bu introduced expert advice and control will be needed. st every torn. The Government of India propose to examine in communication with Local Governments the organisation for education in each province and its readiness for expansion. A suggestion has been made that the Director of Public Instruction should he ex-efficio Secretary to Government. The floverne ment of India agreeing with the great majority of the Local Governments are unable to accept this view, which confuses the position of administrative and Secretarist officers ; but they consider it neceseary that the Director of Public Instruction should have regular access to the head of the administration or the member in charge of the partfolio of education. The Government of India wish generally to utilize to the full the sopport and enthusiaem of district officers and local hodies in the expansion and improvement of primary education; but the largs schemes, which are now in contemplation, must be prepared with the co-operation and under the advice of experts. A considerable strengthening of the superior inspecting staff, including the appointment of specialists in science, orientalis, etc., mey he found necessary in most provinces. In Medras an experienced officer in the education de-

nextment has been placed on special data for two wears to a saist the Director of Public Instruction to prenare the scheme of expension and improvement in thet province, and the Government of India would be glad to see a similar arrangement in all the major provinces should the Local Governments danisa it

INTERCHANGE OF VIEWS

61 In the resolution of 1905 it was stated that arrangements would be made for periodical meetings of the Directors of Public Instruction in order that they might compare their experience of the results of different methods of work and discuss matters of amorial interest. The Government of India have steedy held general conferences at which the Directors ettended end they are convinced thet periodical meetings of Directors will be of great votor. Whife each province has its nwn system it. has much to learn from other provinces, sod, when thur most. Directors get into touch with new ideas and gain the benefit of experience obtained in other prayinces The Government of India era impressed with the necresity not only of exchange of views amongst experts but also of the sdvauteges of studying experiments all over India on tha enote and in a latter of the 7th Joly 1911, they invited Local Governments to arrange that professore of arts and tempnical colleges and Inspectors of schools should visit institutions outside the province where they are posted, with a view to enlarge ing their asperience.

CONCLUSION. 62. Such in broad outline ere the present autlook and the general policy for the near feture of the Geverament of India. The main principles of this policy were forwarded to His Majesty's Becretary of State on the 28th September 1911, and parts of it. have already hien augonneed. It was, however, deemed convenient to defer the publication of a resolution notif the whole field could be surveyed. This has now been done. The Governor General in Conneil trants that the growing arction of the Indian public which is interested in adjustion will join in establishing under the guidance and with the help of Government, those quickening systems of education on which the hest minds in India are now converging and on which the prospect of the rising generation depend. He appeals with confidence to wesithy citizens throughout India to give of their abundance to the cauce of education. In the foundation of scholarships; the building of hustele, schools, collegee, laboratories, gympasia, swimming boths, the provision of play-grounds and other structural improvements; in furthering the cause of modern eccentific studies and especially of technical education; in gifts of pruces and equipment, the endowment of chairs and fellowships, and the provision for research of every kind there; is a wide field and a noble opportunity for the exercise on modern lines of that charity and benevolence for which India has been renowned from encient timer.

Government of Madias Dito Bombay D ato Bengal Disto the United Provinces the Ponjab. Ditto Duto Barme

D ttu B har and Orless The Honbis the Chief Commissioner Central Pro-

The Hon ble the Chief Commissioner, Assam The Chief Commissioner of Courg The Hun ble the Chief Commissioner and Agent to the

Governo: General No th West Frontier Province, The Home Department. The Foreign Department

The Department of Revenue and Agriculture.
D tto Commerce and Industry

Commerce and Industry

Order -Ordered, that a copy of the above Resolu tion be forwarded for information to the Local Governments and Administrations and the Depart-

ments of the Government of India noted on the merg s

Ordered also that the Resolution be published in the Supplement to the Uszelia of India-

II. SHARP. Joint Secretary to the Government of India

SIR A. SASHIAH SASTRY, K.C.S.I., An Indian Statesman—a Biographical Sketch

B V. KAMESVARA AIYAR, MA

Pudukottan Prico-Rs 3

SELECT OPINIONS:

The London Times - A well written his of this anlightened statesman and reformer undertaken by the request of the Maharajeh of Travancore * The London Daily News, _ .

This book contains many stories of the tact and judgment which enabled him to fill the delicate post of adviser to an almost absolute monarch. A book like this will do much to open the eyes of Europeans to Indian affaire as viewed from the native standpoint The English of the suther is almost perfect.

The Madras Mast (Leader) .--Mr Kamesvara Ayar has not only an excellent English style, but also that essential qualification of a hiegrapher, a due discrimination of values in his treatment of the materiels that he has collected The result as in every way excellent Sir Sashiah Sastry contains lessons for all of us, Europeans and Indisns slike, and there is hardly a page of his hiography which does not throw light on the problems which face us to day Mr Kemesvars Asyar ably and successfully sums up his career

UNIVERSITY OF BOMBAY.

CONVOCATION ADDRESS.

The following address was delivered by H. E. Lord Sydenham, the Chancellor --

Mr. Vice-Chancellor and Members of the University of Sombey---

It has been well said that the British manula "only hold India on the tennre of continuous amelioration." To secons continuous advence in every direction leading to the moral and material well-being of all classes is the manifest daty of all Covernments however constituted and the sole instification of their existence; but mon pa the responsibility lies with special weight. We found an India distracted and wasted by internal ware. split into fragments and incapable of self-organiastion. To enforce stable peace was the first necessary condition of the establishment of a system ander which law and order could be maintained. instice administered and national consolidation rendered possible The way to British ascendancy was long, ardnone and oritical. For all Indiana who desire-as many do-to pass indements upon existing institutions, careful study of their history from the period when the European Powers became involved in Eastern enterprize is essential. Such a atndy would provide a needed corrective of the misconceptions which find too frequent expression and would exercise a sobering infinence upon the trend of pelitical thought.

Portngal, Spain, Bolland, England and France have all contended for supremacy in the East, and the destinies of Indis turned upon vastly comples issues which were gradually datermined by the interaction of great European forces. The short period of Portuguese prosperity in the East payer recovered from the superstion of Portugal by Spain in 1580. Spain, et the and of the 16th century. claimed the monopoly of all trade with the East Indies and regarded the Indian seas as her territorial waters; but such a claim could not be austained. Spanish enterprize was divarted to the Western hemisphere, and the recognition of the revolted Dutch Republic by Queen Elizabeth involved Spain in a nevel wer with England which catended to Asian waters and was fraught with momentous results to India. The Dutch captured from Spain the original Portuguese possessions, founded their East India Company in 1603, two years after the grant of a Charter to the London East India Company, and endeavoured to establish a monopoly of the trade of the East as complete as that which bad been claimed by Spain It was this Alliance between England and the Dutch United Provinces that gave the first impulse to British trade with India. The Kingdoms of Spain and Portogal disamearad as contestants for commercial supremscy. and the Dutch and English Companies entered and the Done course of rivelry which lested during the greater part of the 17th century and included three wers. The second of these wars found Holland in silvance with France one year after the establishment of a French East India Company, which was to play an important part in the affairs of India. The death of Aurangzeb in 1707 led to a climas in the period of disorder from which the East had long suffered scately. Alike in Perais and in India, the great dynastics which had voled for a century and a half were tottrring to their fall. The Moghal Empire, which had maintained its untoosts at Kebnl and Kandaber, was unickly shattered. Bengal fell into the power of an Afshan advanturer: a sew dynasty was founded in Ondh. and anyone who could command a anfficient following might carve out for himself a short-lived kingdom. The Maratha bands, developing into devestating armics, over-ran Central and Western Indie and contributed nowerfully to the general break op of authority. When, in 1738, Nedir Sheb. the anccessful soldier who had destroyed the Persian dynasty, exept from the North Western passes to the eack of Delhi and the wholesals slaughter of its inhabitants, the irrevocable rain of the greet Moghal Government was practically nomplete, and tan years later Alimed Shah from Afghaniatan conquered the Ponish. The Indian people, in Sir Alfred Lyall's words, "were becoming a mesterless multitude prepared to acquiesce in the assumption of enthority by snyone who could show himself able to discharge the most elementary functions of Government in the preservation of life and

properly ' This stupendone catastrophe-the greatest that India has yet caparienced because never before had anthority been wielded on so great a scala as by the Mogbal Empira in its prime-was due wholly to Mogosi Empirari its prime—was due wholly to internal capses. That it directly and inevitably paved the way for political intervention by the Enropean Powers is beyond doubt; but the question of anoremacy remained to be decided by the operation of great forces in which India played no part. Following Portugal and Spain, Holland also disappeared from the lists. A Danish and an Austrian Netherlands East India Company had died natural deaths. France and England at length stood face to fece, and for a time the activity of the first was the greater. From 1744 to 1749 the two rival Companies were at war nn the Indien Sea board with results which were distinctly encouraging to the plans of Dapleix, who had initiated the policy of intervening in the quarrels of Native Princes where French interests could be promoted. Thus inevitably arose the political rivalry which changed trade centres into bases for territorial expansion, and since trade needs peace and order as the primary conditions f its prosperity, such expansion continued, as Dupleix clearly foresaw that it must, after tha French cause in India had been irretrievably lost. The confused warfers between the French and

^{*} Reprinted from the University Edition of the Address,

English Companies added to the prevailing distraction of fodes, but had no real effect on the fluct sease. Fine-neal difficulties essetted the former, which from the first was closely essecieted with the French Government, while the latter was an association of traders not brought under the control of Perisagnent till 1773

Open the potentialities of British Sea-power, the fate of India shaolutely depended and they were governed by conditions, recial and political, which shaped themselves in seas and lands for a way Saven Years War, which began in 1756 and ended ru 1763, ween triumph for the British Nevy which, efter ravaging the Brench chasts, won a brilliant victory in Quiteron Bay omppling the naval strength of France and enabling the British conquest of Causda to he schiered with results infinitely important to the future of the Empire in the War of American Independence, from 1775 to 1783, Great Britain without an ally was socioled with France, Spain, Holland and her ravolted Coloniate. and was meanced by the Aemed Neutralite of Rusein. Sweden Decmark and Prossis. The strate upon the national resources was intense, but the Nesy remaiord undefeated and ross in the Wars of the French Revolution and Empire from 1793 to 1815 to the sommit of its power. The failure of the Navy during this series of international wars in which it fought egainst the combinations of the great maritime Powers would have quickly reacted noon India against which the last French naval effort was made in 1781 From the Peace of Veresilles to this day, no Navel Power has attempted to coatest the commend of the Lodisa sees, and the trade of Lodie, now morested to vast dimensions. person escure under the mais of the British flag om sure that the growing commercial classes of India and the large number of Indiana who depend upon the operation of sea borns trade realize what this means to thoir vitel interests

Once agus del French designs upon Iodas take protectes flores. In 1978 Naspiccon deraums of an Easters Empre, Ied agree and the Minute of Exprigation of the Minute of Exprigation of the Minute of th

Second by near accessory against the setternous of any Encopen Cover in Nordi how here possible for the British to proceed a yetametically to the subjugation of Inda, but the was not attempted to the subjugation of Inda, but the was not attempted to the subjugation of Inda, but the was not acceptance of British and the subjugation of Inda, but the Inda, but the Inda, but
capitals of the great occupering dynastics had been founded in the broad fertile regions watered by the rivers fed from the Himsleyso snows. But never before had the gate of these regions been held by a Power which came by and drew its strength from across the sea. Henceforth, for 150 years, Calcutta was to be the centre of Bratish Government in India, and e new political ere brgso leading to the territorial ascendanry which, after the collapse of French realry, became meritable. The process of expeneum went on intermittently during nearly a contary before the peace of all India was at length accurre and ercumstances over which the British exercised nu influence beloed to bring about the final result. In the year of Piesery, an Afghan Army descended upon Deller; but Abmed Shab's Viceroy soon found that he dominion in the Panjab wee challenged by the Marathas who took Delhe and Lahore and reached the summit of their power lo undertaking the cot quest of Northern Indie they had overest! mated their capacity and the retribution was swift and animory. In 1760, Ahmed Shah with a large arm from African and Army from Albert with a 1882 army from African and Argunet Panipet to 1761, the Marethas were routed in one of the prestest bettles ever lought to Indian soil The Merethe Power never wholly recovered from this blow and though it remained formideble, symptome of the same sendencies which had involv ed the rum of the Moghul dominion soon began to show themselves, and contributed to the final overthrow at the beginning of the 19th century, Ahmed Sheh aulike some previous invedere did not follow op his record by consolidating his power, and the Punish quickly lapsed into marchy until the short-lived Sikb kindom became entablished. In 1797, his successor Ziman Shah re occupied bat could not hold Laboration. hold Labore, and the series of Mehomedan investors which had lasted for 700 years come to an end these events Invonred the onward movement which was to lead the British from Bengal to the mountain frontiers of Afghanistan

To beiry and incomplete sketch of a long and imagele chapter of history which I have attempted to draw may seem not of place on an occuration for the many seems of the many seems of the large states of the large states of the many seems of the ma

stable frontiers to be stained. That, when the period of expension ended, one-third of India remained moder native Role, and that innumerable States, ledge and small, abused have been exercisely preserved on to the welter of long racial and dynamic energy enging energy perspectively with the control of th

Rearcely 150 years have clapsed since it became certain that dominion in India lay onen to Great Reisain and not to France from whom it might have been torn after Trafalgar or after Sedan. During little more than 50 years, since the catacivem of the Mariny, have we been able, in the foll security of peace, to devote ourselves to the great work of continuous amelioration" throughout the vast territories which have passed directly under the Crown. Doring the years of storm and stress through which Great Britain passed between 1756 and 181K the over growing responsibilities of the British people toward India may not have been ranked Foll consciousness of our sacred obligstions would not be reached until pasce reigned over the languh and breadth of India. It found expression in the Queen's Proclamation of 1858, and it has broedened and despend ever since. The Britain of Queen Anne was not that of the Great Queenbecoming the Britain of His Maissty King George V and most continue to change. It is se namet to attach importance to errors and defects which occurred in days that are zone as it would be to dilsts upon atrocities perpetrated under contom-porary Indian Rule. The one have long been as mpossible as the other.

That dominion in India fell to a maritime Power was the certain result of causes operating through many centuries to India track. That such dominion fell to Britain was not without certain advantages. The author of "The Feture of England" analyses the reasons of the position won by the British people in the world, and after dismissing various bypotheses he reaches the conclusion that they-first among the nations-wrested from the State the right of religious freedom and with it cirit liberty. To this conquest he traces the rise of our gigantic Industriel system. " England had shaken man's authority and lounded freedom. Free England had shaken natura's authority and founded industrialism " to which the best workmen of Europe. floring from religious persecution, powerfully con-tributed. To the nation which led the world in encuring bornes liberty and in territory the limitines resources of nature to the service of mankind fell dominion in lades. In the century during which that dominion was established, there was no other nation nearly so well fitted for the first task of boilding up gradually, but surely, an orderly and a just Corernment. Who will my that any other nation would be better able than are we to carry through the second task-that of uplifting and welding the baterogenrous peoples of India into harmonions nationbood and of leading them to

develop the natural resources of their great

total assemble as in which we are now engaged and by encreas in which nerhans the historian of a distant future will mainly have his jodgment upon one achievement is recording attackly by various processes. Law, which never before our day was uniformly enforced, is a great, if sometimes a barab, Schoolmaster. And if a great avatem of law. deviced with the heat intentions, has led to a mania for litigation intensified by the gambling instincts of the East, it is nevertheless a unifying force. Railways, telegraphs, the postal service, irrigation on a vast scale, even good roads are all playing their part in blending interests and breaking down social beeriers. A nation in the modern score could not he built on in India without railways which we have enread broadcast throughout the land. The English language, which is repidly becoming the "National Congress" would be practically im-possible. The self-acrificing lebours of Misshonary aspeciations of many kinds are providing eremples of philanthropic service which can be helpful to Eastern peoples with national aspirations. The liberal system of Local Self-Government which unw exists supplies full opportunities for the harmouions working of all communities in the discharge of important civic duties. The enlarged Provincial Council provides bigher training in the orderly conduct of affairs and brings together twenty-nine Indian Members, widely representative of Indian interests, to decide upon all larielation and to discuss matters affecting the public welfare.

You pub haps blick that all these and other mean of nation hashidge are of misor significance compared with what is conventionally termed "Education," and modubiledy the character and boys who may be supported by the contract of the contr

In England, the evolution of higher education was also another year unorganized and not be about the beautiful to the control of the control

liberty In later years education, long conducted ontirely by the religious badies became one of the most important functions of the State. The first national grant for aducational purposes was made by Parliament to 1832 and in 1847 the State gove financial aid to Training Colleges The gross inefficiency of the teachers revealed by e Commie sion and the negent needs for organization led to the Education Act of 1870 which nationalized Pramary Education This and subsequent Acts up to that of 1902 established the free end compoleory avatem which now prevails E glish Secondary Schools existed before the accession of Henry VIII in 1509 and partly as a result of the Renausance, 800 Grammar Schools were established in the following century while most Cathedrals had an attached echool These schools developed un lines of their own some of them attaining distinction, while many were hopelasely mefficient Great changes have been carried out to recent years and though Secondary Education of the middle classes remains self appporting grants in sidere now made to enable achoole to provide free Secondary Education for the children of the working classes. Under the Act of 1907, as stated by Lord Haldene et Bristol the other day the clever boy or girl con ganerally obtain a scholarchio or o free place in a Secondary Robool though forther progress is still d firult. The completion of the chein connecting the Primery Schools with the Universities will good be eccomplished In this Presidency Government now provide for tan per can't of free scholers in our High Schools and the Aided Schools may extend the High sontons and the August contons they extend the free is to 15 per cent. The Secondary Schools of the United Kingdom here about 161000 papils command with about 400,000 in Germany tanget by 20,000 highly trained teachers S see 1907, the teachers in the Flementery Schools of Great Britain have been obliged to spend a whole time period in a Secondary School before entering a Training

When Western learning began in India, education in England though considerable in quantity. was largely mefficient and wholly prorganized Only in the latter half of last century was it real zed that we were falling behind other countries and co pecually Geemany where a great eratem day sed and controlled by Government was being rapidly built op The Brit sh habit of trusting to pervate agency and private effort, which has some great advantages, proved to be quite unswited to modern educational needs end the nation which led Europe in industreal enterprize was threatened with defeat on the field which it had domirated Not only in reienlife training but lo general education wa found that wa wers in danger of being cutdistanced by sivale and that our national progress was impeded. Our complacence received a rade shock and we attempt ed in earnest to set our educational house in order The paramount importance of Government responsib lity in regard to education in all its brenches in now recognized | careful atody is devoted to education as a subject per ee, and numerous and drastin

reforms are in full progress. The great question for this country to-day is whither Indiana, like the Japanese, will welcome of a test in corresponding reforms or whether the corresponding reforms or whether the satisfied with obvolute methods which all advanced peoples have left for behind. Upon the survey to this question the sched of the progress of India towards nationalload largely depends

It is a curious fact that the deto of the first con tribution from national foods to odnostion in Eng lend only anticipated by three years what was e turning point of education in India Lord William Bentinck desired that the education of Iodia should he based upon English literatore and science. The first direct impulse, however, came from the Law Member of his Conneil, who to contemptaces rhetorio gare a falsa direction to edocation from which India has not get recovered Lord Macaulay & saited work on the Panal Cods, which he did not remain to complete, was edmirable. His ides that education should our at producing Covernment officials showed a narrowness of vision which India has reason to deplors. As M Chailley points not 'It necessarily followed that pupils were to be sought, not smong the mess of the people, but to s special class Until recent years Primery Educe tion has been too much neglected, while Secondary end fligher Education shapehed a disproportionate share of public funds. The femous despatch of Sir Charles Wood in 1856 simed at redressing the balance and with a breadth of view remarkable at this period enerciated a policy of giving instruction to the meeses of the people, discussed methods and promised financial support. For various ressues the results were most disappointing, but new admicustrative muchinary was creeted and Higher and Secondary Education gained to some sited-in 1857 the Universities of Calcutta, Madras and Bombey were formally inaugurated. The Act of that year, in the praambir, laid down that these new Institutions were primarily established for the purpose of ascertaining by examination the persons who have acquired proficiency in different branches of L terature Science and Art. and of rewarding them by Academical Degrees' This miserable coo ception of the objects of a University was apparently doe to the selection of He London University see model for India The London University has since undergone radical reforms; but the Indian Universites m airrected from there start, remain noregenerale

The important forms mure of 1992 was compailed notated with na rathly general discrete prices of examination is subordinate to backing, it foots, teaching has been made to backing, it foots, teaching has been made to backing out of the company of the control of the company of the company of the property of the company o

noted the esistence of "e very general dealers that all the Universities should be recognized as teaching bodies," and they made proposals for enabling them to provide "advanced conrect of study."

The Report of this Commission and the Minntee of pridence should be carefully studied by overroon who desires to form any opinion upon thu state of higher education in India. By 1902. Government and the Indians best qualified to indea had become nerfectly awars of the grave defects in the system of higher education—defects which the Act of 1857 must have brought about in any country, but which were nowerfully intensified by the characteristics, social and intellectual, of the Indian people. Easminations had been allowed to run riot with results demoralizing alike to the Universities and to education generally. To pass Matriculation and to obtain a degree become en object of ardent desirn, attracting large num-bers of boys who inevitably failed in both; or, if ancesaful, too often found later that their equinment was of no practical value. Meanwhile the Universities continued mychanically to grind ont passes and failures; klodness of intention led to real cruelty; standards were lowered and with increasing numbers came deterioration of teaching power. In the Bombsy University, the proportion of teachers of all ranks to students is about I to 31. At Caford it is 1 to 7-2 and at Manchester 1 to 64. Such comparisons are necessarily inesact; but they help to amphesize the induspotable fact that classes. in some Schools and Colleges are far too large for education worthy of the name. The fierce struggle for objects too often tragically illusory and weakness in teaching power led to dependence upon memory, the faculty which many Indians possess in marked degree, with disastrons results to education. "The testbook," writes M. Chailley, "reignaover thu Indian Colleges in all its bideoususes and is is not only the students whn are possessed of these manuals." I need bardly say that a good test-book may be advantageous or aven indispensable for certain subjects, though in the higher hranches of study it abould have un pface, It is the misosa of the test-book by teachers and students that is in fault, and examinations which can be successfully passed by pupils who have committed passages of their manuals to mamory react upon the teachers and are cause esusantes of the failure of education to do justice to ladis. The kindoess, which may be cruel to individuals and must be injurious to national progress, is reasonsible for the form taken by too many of the University esaminations. "A good esamination paper, stated the Commissioners of 1902, "is a work of art," and they went oo to make some practical auggestions on the sobject which have been ignored.

Higher education in Iodia can make a fair display in tabulated attribute. The number of authorities the Universities in terry merly identical with that in the United Kingdom and more than three times as great as that in Japan. Of all pupils under instruction, about one in 1400 is

raceiving University training in the United King. dom. The corresponding figure for Rombay is one in about 168. In the United Kingdom about onn popil in 34 is in a Secondary School; in France one in 33; in Bombay one in 112. In proportion to population, for reasons which are plain, the percontages are still sery low for India, though 25 3 ner cents of hove of school age are now under instruction, and this figure is mounting every year. Some relation between pupils in the different stages of education roughly approximating to that existing in other countries might been been expected; but causes, which I have endeavoored to eaplain, have produced e startling disproportion of University and Secondary atodents in India. Wn have in fact hailt ap en inverted pyremid for which broad end stable foundations must now be provided: If the quality of the putput of the Universities of India approached that of the Imperial Universities of Japan which have less than one third of oor number of students, the progress of India would be greatly of standents, toe progress of thus would no gressly accelerated. Lecturing some years ago, Dr. Bhan-derker significantly asked; "Why should we not more on, side by aird with Europeaus, in the greas fields of thought? Why should discoveries be made in France. Garmany and England and not in India !" Anvonn who will make a conscientions study of the atate and methods of the Universities in India will find nodefficulty in supplying the answer,

Higher education has fellen within the confines of a vicious circla. The Universities were orested to axemins and confer degrees. Indian andcore eagerly sought to pass the Matriculation and to win degrees. Mistaken kindness demended a larga peso list, edmitting hoys quits nuprepared for University training. Moreover, to render these passes possible azaminations of a special kind wars necessary. Thu admission of unprepared hoya wasted and enfeabled the teaching power of the Colleges, and both Colleges and High Schools were forced by the character of the axamications into methods of teaching having no relation to edocation and barmful to the best stodents. One Institution, recently criticised, retorted pertinently that, "as long as the present system of examining is adhered to by the University, the system of dictation is almost forced upon the Colleges." These cylla inevitably reach opon the University itself tending to produce lowering of standards to meet popular demands, and thma completing the chain of error which pressee heavily upon the atudent and impedes the progresse of India. I do not mean for a moment to imply that there is not good teaching in some Colleges. and Schools; but such teaching does not obtain fair play and cannot stand out as it deserves. The mental strain upon the student, especially before the numerous examination periods, is often nucesaive and naually quite dispreportionata to the emount of sound knowledge acquired. The economic strain may roin a family without any compento arrain may rom w manney windows any compen-aation, when as too often happens they have atinted themsalves and borrowed to provide som with a standard of education for which he is not fitted: The Commission of 1902 had down that the sale of fees should not be solow as not tempt a post student of but ordered and the solow as t

The Government of India Resolution of March 1904 which fo'lowed the consideration of the Report of the Commission of 1902 is a remerkable State paper dealing with the evolution of education in all its brenches, according full credit to what had been accomplished, pointing out the need of "sobstantial reform," clearly indicating the direction which pro-gress should take, and laying special stress on "the sbuse of exeminations" Acticipating the "the share of examination" Acticipating the demand for a large increase of Frimery education, which has since become popular, the Governor-General in Council noted that there were "more than suphrecomit." then eighteen milions of boys who ought now to be at school, but, of them, only a hatlemore then one sixth ere actually receiving Primery edu-cetion" in 1901-02 the gross sunual expenditure nu ell tesching metitutions exceeded Rs 400 lekbe, hat Primery Schools received from Provincial and Local Funds only a little over Re 63 lakbe. The corresponding expenditure in 1911 12 on Primary education for Bombay Presidency slone was Ra 351 lakhe

The steriling reveletions of the Commission of 1902 led to the Universities Act of 1904 which gave statutory force to e few of its most negent re-commendations. The result of this mild Act was a commeogenous. The result of this library with blue not yet loud and widespread claimour which has not yet died away and which caused sorrow and discount away and which caused sorrow and discount of the second sorrow and discount of the second sorrow and the second nipeot of the Act-so its opponents alleged-was to "Officielize the Universities". This parvot cry was teken up by writers and speakers who had never read the Report of the Commission or the remarkable Resolution which followed, were unaware thes in Germany and in Japan the Universities are con trolled entirely by Government and for that reeson ere peculiarly efficient, and ignored the pregnant statement of Dr Bhandsikar, one of India's greatest scholars thet "Educational opinion abould pre-dominate in the government of the University" Prayadica having been thus sroused, it was inevicable that, as in all such cests, consideration of the real sames should drop out of sight. Thes Government sincerely desired only to remedy patent evils, tending to become chronic, which were visibly checking progress in India, and could have no other mouve, was quite forgotten. The minconceptions thus engendered bear dead see irpit to this day and have helped to nentralize the good that might have been accomplished. M. Chailley, whom I quois again become an eanle French crum of the administration comon be credied with efficial or raced bus, efter obsectanced the Act of 1000 as the real charter of present days education in India, sake "Willist prove really fine-come?" "Hyoron oppose," he adds," as the fine-come? "Hyoron oppose," he adds, "as the of education in India dening more than for press; and because the content of the content of the come of I plaudy see, the results have not corresponded with the efforts and the intentions of Gereroment.

Mambers of the Senste-

I trust that you will forgive me if I have seemed to dwell too much upon the essectiel week points in nor system of education When I first had the honour of addressing you five years ego, I confessed to a "acree of desappointment" at the results of higher education. That sense hes been deepened hy fuller knowledge and it has been my carnest endeavour to get to the root of the caones which are operation to make the ontput of our Universities inferior to that of other countries and mediquate to meet the ever growing needs of India. Upon you, individually and as a hody, heavy responsibility rests. You control higher education to this Presideccy, end when education is soond end thorough et the head the rffect permretes the whole eyetem As Chancellor, I thenk you for the progress which you have accomplished We now have a retional curricolum, which will require revision from time to time to conform in the gracesi edvaces of education emong all progressive netions of the world, but is a merked supprovement upon the patch work which formerly estated. You have abolished compulsory English History, which no other Indian University adopted, which was strongly condemned by the Universities Commission, and the teaching of which onversure Commession, and the teacing or which for the B A, degree was characterized by four distinguished late Vica Chancellor Dr Selby, as "a furco" Ton here just abolished the Presume Eramenation another appressity of Bombay—e step which I neged about 44 years ago If you have not served to allow Colleges to admit their own nucleor graduades and thus to essign to the Materialist Beammetton its proper place; it may be bord distinct their efform, which would lend vigour and naive deathly to the Colleges and relieve the University. of a barden which it is not well fitted to hear while retaining all sta proper functions of control, will he reached oltimately. Meanwhile you have distinctly improved the Metricoletion course, and you have accepted the Senior Cambridge and Oxford Exammetions and the European High School Exeminatenes, on certain conditions, as equivalent to the Matriculation All this shows progress; but I need bardly tell you that the most perfect curriculum may be rendered absolutely worthless by exeminations Aiready e fear has been expressed and is instified that the BA of the future "will amerge no longer with a general amattering of four auhjects, bus with an equally superficial knowledge of two only" This disestrone result you and you slove can avert, if you results what the quality of your ontpot meeus to India. I congretulate you on the

eaw apportunities which, if they are terned to good account will advance the hest interests of the Pennylancy Five years and I noteted in the neglect of Science and its necessary consequences. Thanks to five generoes citizens, representing all the great communities, the Director of Public Instruction communities the Pitecon of India Leaching in Science on preto-date lines is out svalishle within the Presidency will soon be does eway. The fine metitations at Rombey and Abmedabad, if granerly worked meet stimplete iedustrial enterprise un troe Swedeshi lines sed belp to correct "the sucenacity to observe and eppreciate facts and the taste for metaphysical and technical distrections" which too frequently man the success of the ledien intellect to the great fields of homen schievement. The liberal assistance provided by the Government of India will enable you to take an immediate sten in adragers, but do not believe that only by increase of funds can the University he recenerated. Amole work her before you sets which figuress! considers work hes before you fell which hoands Considers the not coter. Forget, I be good, the nobsppy presemble of the Act of 1857, and keep over before your minds the highest University ideals. A Uni versity, wrote Dr Newman, "is a place where anoniry is nusbed forward, and discoveries varified and perfected, and rashness rendered sencenous, end error exposed by the collision of mind with mind and knowledge with knowledge. It is a place mind and knowledge with knowledge. It is a place which wine the edimention of the young by its calabrity, kindles the affections of the middle aged by its besety, and rivets the fidelity of the old by its associations." "Universities," said Mr. Bryce. recently at Adelaids, "agist for the sake of truth. When sech ideals are reached, the building up of an Indise nation will make giant strides fastly, I implore ton to receive and welcome all serious prepossis for reform, even if they emanate from the head of the Government, to discuss tham from the educational point of view cely, accrning suggestions of piterior motives, and resolutely to keep clear of political methods in the conduct of your responsible deliberations. The University of Bombay now nambers more than twice as many students as are under training in Oxford and Cambridge combined, sed more than foor times as many as in Liverpool University. The number will soos be further increased. and clearly this great aggregation is beginning to exceed reasceable limits. Before long seb division will be essectial, and whee the time comes, I trust that you will all realize that your personal dignity

will not be affected to the shedtest degree by a change which will simply mark the advance of Indea

Students, past and present-Threes the lest occasion on which I shall be able to meet wan, and I wish that I were able to save what might remaie in your mieds and instite your to your futere careers My active life must shortly and Vones' is only that beginning Before each nne of won he opportunities of belong in the holdand no of Indian nationhood. It has been well said that ' the first questice a University teacher should ank bimself is, *Am I rossing a spirit of equiry in athemative, the University fails to its objects. How far the spirit of inquiry has been rossed is you is known puly to yourselves. What you may have learned nr are learning by rote will be absolutely engless. Everything that you have so learned as to capen a rescuou upon your minds, opening out new fields of thought which you can exploit for yourintelliginal progress 'said Dr. Jowett, the great Master of Balliol, ' 12 not econtaition, but the increase of the cowers of the mind. If you can need that test then assuredly your time to this University will bear good fruit in your own careers and in the great life of India in which you can play a morehy pare Character, knowledge and work will carry you far in sey form of schivily which you may select; but the character must be formed on high ideals, the knowledge perfectly assimilated, and the work Datient and puffinching, 'Islant," wrote Zola, "sees opportoonly, genius creates it, but cely patience and labour leap its most periect reward To all that you may attempt, small things as well as great, give your hest, and he sere that, in so doing, you will gain in capacity and add new streagth and Jumetry to your character "Nothing, wrote Michael Angelo four hundred years ago, "makes the soul so pure, so religious, as the endeavour to create something perfect, for God is perfectice, sed whoever strives for perfection strives for somethier God like."

With all kindly wishes for your redividual happing ness and success, and with earnest hopes that you will each in some messers belp in the advancement of Indie which is my ferrent desire and for which I have laboured. I bid you farewell-

PROTEST OF THE CALCUITA UNIVEESITY AGAINST THE DACCA UNIVERSITY COMMITTEE'S REPORT.

Facu

To

THE REGISTRAR.

CALCUITA UNIVERSITY

THE SECRETARY TO THE GOVERNMENT OF BRAGEL, General Department, (Lidnesting).

Senate House, the 4th March, 1913

Sir. In reply to your letter No 7463 forwarding 19 copies of the Report of the Dacce University Committee, and requesting that the Syndicate of the University favour Government with their opinion on the Report, I have the honour, by order of the Syndicate to state, in what follows, the views which the Syndicate se a body entertale regarding the scheme ontlined to the Report I also have the hoppor to enclose berewith certain hotce on the Dacce scheme written by individual Members of the Syndicate Some of these notes raise questions which though importent the Syndicate do not desire me to deal with specially in the present letter -among them the question es to the finencial espect of the Decce ocheme which, the Syndhate here on docht, will receive fall eftention from the eathorities. end the proposed perpetuation, in the contemplated University, of the distinction between an Indian and e Provincial Educational Service to which in the opinion of the Syndicate serious phiection may be

taken 1 The Report claims for the contempleted Dacca Umversity, that it will be a University of a naw type ementially differing from the existing Universities While the latter ere obsrecterized as being mornly examining bodies and exercising their function with regard to sindents coming from all parts of a Province (on which account the new designation 'federei' has been dayssed for them), the Dacca University will, the Reportesys, be a 'teaching' and 'residential' University, whose fenction is will be to impart instruction up to the highest stages to such students as reaids at the Colleges attuated in Dacca steelf, and which will decline to concern Dacks steers, saw wants with around to content the first, and exempt any endeate not belonging to those few Colleges. That the arrangements proposed for Dacks will differentiate is to some extent from the other Universities must no doubt be admitted. admitted. At the same time the Syndicate are of opicion that some of the entating Universities also, notably the Calcutta University, have a vory fear claim to be called 'teaching' and even 'residential' lostetutions, and that such claim will be very much stronger before long, provided those Universities be allowed to develop on the lines they have proposed to themselve Deca no doobt will not exercise examining fanch on estable size on servor spiker, and this will constitute a real distinction between it and the side of inversation. But as few as textured to the size of the s

Many of the details of the errengements proposed for the Dacca Institution would efford room for centicism, the Syndicate bowever have no wish to take up these metters fully on the present occasion, as d they abatem altogether from offering remerks on the courses of sindy and the syllabuses set not in the Report. The Decce Committee evidently has gone nito these questions recy cerefully, and the Syndi-cate bare no doubt that the existing Universities may take many a nefel but from the absent onlined What the Syndicate desire me to derill on in the letter, is in the first place some few of the detaile of the Dacce scheme which appear to derive special importance from the circumstance that they are likely to affect, by end by, the working of other Indien Universities in some wey or other, end in the arcood place the effect which the foundation and maintenance of Decce of a University on the conditions set forth in the Report is likely to here on the interests, position and prospects of the University of Colentia which on for hes singly guided and detercaused the development of higher education in Bengel The Syndicate make on doubt that their special claim to be heard on this latter adject in perticular will meet with ready recognition

2. The first point on which I am directed is found in the arrangement under which it is proposed to allow Direct sundents to pass the Exemistron of the University without which we have been as the Exemistron of the University without and the same time. The measure, the slight of which of course with be to casts a suser for students to get through the Exemusion, was fully coundered and 102 I is to be found that if Darce should lower the students of the Exemusions in the way, other Universities will be target, possibly drawn, the Universities will be target, possibly drawn, the Universities will be target, possibly drawn. Under the Country Degrees would be diminished all over the country.

3 The second pout I take up is the institution of so-called hismin drgress to be conferred on students who, in place of the ordinary Arts and Ecanese Courses of the University, have taken up a sprease corns of 'islame's studes which will combine the study of English as a language with the study of certein branches of knowledge as yourd.

and developed by the great teachers and scholars of lelem. The intention is to accept them Islamic degrees as egoal in valor to the printery Arts and Science degrees and to allow to their holders tha same openings for entering Government service and oate think, is open to very gram objections. The first question to be eaked in whether a University which after all claims to be an essentially modern onn and to traio young men with a view to their taking part in the life and work of a community governed on modern and progressive principles. should nodertake at all to confer degrees no etn dente who have donated most of their time to studies of an assectially non-modern and non progressive character and bence have lost the opportunity of coming toto fenitled contact with the thought and knowledge of to-day. It can efter all hardly be maintained seriously that a knowledge of Jelamic sacred law and tradition, and of systems of grammar, logic and philosophy elaborated by Mussalman scholars of long past centuries is of the same salue for thu porposes of to-day's life, whether in India or in the West, as a knowledge of modero literatore, history, economics, physical science a, e.o. Thern is every reason to fear that the 'Islamic degree'-holder when entering one of the higher walks of practical life-whether as an administrator or lawver or indicial officer or medical man or engineer or manufactorer, etc -- would find himself placed at a very decided disadventage, compared to a man who has been taught and trained on bond-file modern lines. The echeme of Islamio studies is said to find much favoor with the Mohammadan community or e large section of it; but the Spodicate exprehend that the extraction of the scheme lies mainly in the chance it seems to offer young men of entering remucerative employments on comparatively easy terms. That the Islamic courses are not intrinsically easier than the ordinary Are and Science courses will perhaps be asserted; but of this the world et targe will not be convinced if the function of testing the knowledge of candidates of either kind by examinations is entrosted to senarate Boards of Esamioera And there can of conres be no doubt that for the Islamic degrees the examining work would have to be made over to Buards of quite a special constitution. The Syndicate do not mean to dray the interest and, in a cartain sense, importance of those lines of study which may be termed Islamic, and they think that a new University might very suitably, consider the question how auch studies may, within don limits, he ancouraged and promoted. But, with a view to the standing of thouse University as well as to the true interests of the Muhammadan population of Beogal, they would decidedly object to eny scheme tending to draw Muhammadan youths in large onmbers away

from truly modern and practical lines of study.

The schema of Itlamic atodies and degrees proposed for Doza, however, reises another extremely serious and far-reaching question. If the Breulasions of a Coivernity allow of degrees, with all their concepted advantages, being accured by men who

here been trained on old time-honopead Talamia lines who should not accomments he made to admit to the same privilege young Hindus who Jaming their college corner have devoted theme selves majoly to the stody of accient Hinda lore-let us any Indian law and contom, the indigenous Nyaya and Vedante a. a o. ? This question or as we might also say, this demand has in fact been raised afreads and annears to baby no means without fustification. Why should not Brahminical or Hinds on Sanskritis dances he artablished side by aids with the Jalamic ones? The appoint gravity of this mestion or claim lies, the Syndicate think. therein that it might before long make itself heard all over India And this would mean nothion less then a ce oneging, after a long period of unitercence. of the momentous question es to the comparativa value—intrinsic value as well as calne relative to the conditions and nacds of India-of Oriental and Western systems of thought and learning, Our Universities might find themselves called mon to ec-examine, and eventually, to reconstruct the very harra on which thay rest.

4 In addition to the questions touched upon in the last two paragraphs—which must be considered as specially important in view of their beeing a direct interest for all Indian Universities—there eres few other points of more local import on which the Specialcas wish to offer e few remarks.

(a) The establishment of a special College for the well to do classes —The Syndicate wish me to env that they quite fail to see any reasons for the catabliabment of a college of that epociel kind, end up the other hand are coorduced that such a college woold be injurious in more then one wey. Young men of the well-to-do, i.e. the wealthier section of the anger middle classes, shoold not, the Syndiesta hold, be encouraged in any war to riew them . arives as a special class and to hold aloof from fellow-students whose parents may happen to be less wealthy than there own but who in sit essential respects are their equals and probably in many cases their superiors. Nothing moreover should be done artificially to ancourage the natural tendancy of young mer, or at any rate many of them, to go to predicas expense in the matter of food, deese, and the like. The authorities evidently intend to make the ordinary Decca College and its hostels true model institutions of their kind, and places of that type ahauld clearly be good enough even for the wealthiest student.

(M. The acconcurative to be made at Ducea hor the residence of sindects and for the mainteene at discipline present the Syndicate bold, many commisting entering the course strike no very reviable conditions; suitable course strike no very reviable conditions; suitable and aven splendid buildines will be placed as its discretific about the conditions; suitable sind the condition and means will appearently the conditions of the conditions and the conditions are sent and consecutions. The Syndicate, brain teach not feel quite sure that a system under which adapted as the conditions and conditions are the conditions and conditions are that a system under which adapted to the conditions are the conditions and the conditions are the conditions and assistance in all adapted to the conditions are the conditions and the conditions are the conditions and the conditions are the conditions and the conditions are the conditions are the conditions and the conditions are the conditions and the conditions are the conditions are the conditions and the conditions are the conditions and the conditions are the conditi

they do and which provides on olaborate est of restrictive rules meent to esfeguerd their more! interests us in all respects the best one That forms. tion of cherecter' is what is generally referred to as the main parpose and effect of well organized collegiste life; but a sppeara doubtful whether a eystem which in so many ways limits and checks nanded radividuel effort will tend to promote in a sufficient degree the bebits, on very essential in later life of self relunce and salf restraint. There ere meny who think that a youth whom circum atomics have early compelled to think and act coursely for himself has bed a better apportunity to develop ' cheractee ' then one whose every forward step has been watched guided and assisted by well messing gnardiens and totors. This however is a rather wide questing on which the Syndicate do not mess to dwell further. They on the other band, desirn me to say a word se to a epecial d filculty an the way of the development, in Indian Colleges of that fire collegists soirst which no doubt prevails to the Colleges of Osford and Cambridge. The development of such collegists spirit with all its salutary toficences largely rests on intimete and eponteneous fellow feel ng between Students on the occeed Totors and Teachers on the other hand All the gogditions for the formsting of such fellowfeeling ere of course present in en English College. In India on the other hand there are obvious great obstacles which cannot always be overcome. Mahammadece and Hindos are divided from each other in many ways and even between Hinda Teachers and Hindo Students difference of casts often prevents the formation of close ties of sympathy and trust. In the case of European Tutors in charge of Indian Stadente the difficulties ere intensifled and multiplied r differences of race, religion, babite of life and so on constitute a series of hareiers which are not essily broken down and the existence of which calls for the energies of a great deal of tack and caution on the Tutor s part The young English Professor who is sent out in this country does not the Syndicate apprehend always pussess the special quali-fications required, and if as may beppen now and then, he should impress the students in his charge as strongly conscious of his position as a member of the rating race bonds of sympathy naturally will be very slow to form The Syndicate of course fully admit that the students of our Colleges should be nuder some form of superintendence and restreint, and they consider it highly desire ble that the Teachers and Tutors should take su interest in the Stodents well doing -bodily, intellectual and moral-oat of lecture haurs also Teachers and Students about frequently meet at games, debetrag societies, occasional social enterteinments and the like. But they think that it will be wise not to expect or demand too much, and that care should he taken not to urge errangements which in practice may possibly lead to results altogether contrary to what was miended fric ion and ill feeling instead of hermony and sympathy

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(a) Engineering College -The Syndicate wish to say that they fully endorse the views especiated no thre point in the Notes by individual members of the Syndicate, especially the two Engioser Members It appears to them that no serious argument for the establishment of so Engineering College at Dacca has been put forth, while the best of reasons speak for the meintenance of such a College at Celcutte The Calcotta University has bad an Engineering Faculty, besed on the Civil Engineering College of Bibpur for more than belf a century, and would deeply regret being deprived of College and Faculty at the same time.

(d) Law Teaching at Daces -The Syndicate are of apparent that the provision contemplated for the Law Class at Dacce will be hardly sufficient for the adequate teaching of the full Law Course, and that it would really be a preferable arrangement to add the amount to be spent on Law at Dacca to the mooms of the Celcutte University Law College which is open to stadents from the whole Province, and which thereby would be enabled to effect im portant improvements in its own system of working The Syndicate do not however wish to urge this point se they are quits ewere that the existence of some kind of Law Cless et Dacca will be in the soferest of the local Institution ses whole

(e) Administration of the University -The Synds cate see no sufficient resson for certain provisions regarding the constitution of the Council of the University Considering the fact that the great mejority of the members of Convocation will be appoints of the members of Canrossian with se appoints duratily naturally—by Governmech it is not clear why any Professors bould be appointed to the Cannell by the Cheucellor instead of being elected by Conrossian. Nor do the Syndicate understand why ten Mohammadan Graduateachoold be specially nominated by the Chancellor se Members of Conversion

5 I now turn to the second main point-the way in which the establishment of a University at Decca may be preanmed to effect the interests and prospects of the Calcutte University

That the esistence within the same province of e inly equipped University such as Ducce is meant to be, will touch the interests of Culcutte in versions weye ranvident It will in the first place remove from the inrediction of the Calentta University the important Golleges situated in Dacca, and will forther beyond don't draw away from the Colleges efficiented to Calcutte a certain, probably considerable, number of students coming from Fastero Bengal This the Syndicate cannot help regretting rn a way, fue rt means to their nwn institution certain line of prestige and income hat they do not mean to make a grievance of each loss they quite understand that es the educational needs of the country expand new Universities are bound to spring up and that there will be to some extent an unevoidable conflict of interests between the old and the new institutions. And they, on the other band authorpets that in this aphers also no less than elsewhere competition as long as carried on an fair terms will bring with it certain edvantages; it may urge each of the rival Universities to perfect its arrangements for teaching and residence. But the Syndicate are exprehensive that if Dacca should be established in tall acreement with the plan now before them the compension would not be en eltogether fair one. I have dwelt above on two features of the Dacca scheme which would be specially likely to affect other Universities: their propable remediate effect on Calcutta in particular may be stated in a few words. The privilege eventuelly to be enjoy. ed by Ducca of conferring degrees on students who heve passed their examinations in compartments would of course render many Calcutta students eager to join a Dacca College; Caicotta would shen either have to put up with this less or to thim the same privilege for its own students, lowering thereby its atsodard. And the establishment at 'Islamio' degrees at Dacca would no daubt act as a powerful magnet on the mejority of the Minhammaden students of Bengel, trawing them to the place where Government employment and access to the learned professions can he had on easier terms.

6. The Dance scheme however, I am desired to say, gives rise in the minds of the Syndicate to another misgiving of a much graver nature-a another manying of a much graver backlers muggiting not due to say special feature of the planned University has to the scheme of each a University in its entirety. How, the Sindicate ask themselves, is the lact of Government taking upon themselves the charge of providing a full teaching University at Dacca likely to effect their estitude lowerds the older University of the Praviace? Calcutta un doubt has for a long time been mainly a University of the so-called "Examining" type (a designation, by the way, which obscures the fact of sil the , exemining, furiessities of Judie pealed all along bean 'teathing' Universities on well manmuch as Imparting lastruction through their offihated Colleges); but it has in recent years taken decided, and as for as they go, effective steps towards becoming a Teaching University in the tulf sense, by andertaking to organise post-graduate teaching under its own direct anapices. It there, fore is naturally ensions that the new espirations it cheriahes and the new efforts is is making should not be crossed or in any way interfered with by a new rival University wimin the bounds of the same Province. This so doubt need not be the case, for two Teaching Universities may very well exist side by aide, each possibly being benefited by healthy rivalry with the other. But the utterances on this point on the part of the framers of the Decca Report are far from re-essuring. Whet, in the first chapter of the Beport, they say as to the different possible types of Universities in India, seems to imply a decidedly curious view regarding the future organization and respective functions of the two Universities of Bengal. Their idea opporently is that there is to be one place where higher teaching of the best and most edvanced kind will be given. and where students will live to experior residential style ; this will be Dacca-the teaching and residential University. Side by side with this there

will be continued all over Bengal, a number of Colleges where higher teaching of a rather inferior kind will be excellente, and where the students will b- I-- -- Il-bonned and apperintended Colleges semong them all the Colleges on Calcotta -writ to massed together into a so-called 'feneral Hoiverenty -which will be of a gon-backing and con-residential character and whose only function rs will be to examine the crowds of inferior students who belong to colleges passide Dacca, and in addition it seems the caudidates for Matriculation from the whole of the Province including Lincon itself This will be the University of Culcuttamen motion totson resembling what Calcutta was in old days. with the important difference however that the Calenta of the intere-distinctly labelled as 'nonteaching and non-residential -will be definitely ens off from all hope of higher developments and throws altogether into the spade by the 'Teachior Howevery of Dates. The Report po donts makes a reterance to Calcutta having of late endeavoured to ornered for higher post-graduate teaching; but the implication of the entire chapter. in fact of the whole Report, to that certain Lowersties (smoon them of course Celcuttal will have the function of examining-although it may be found possible to allow them to errange on their own account for as much higher teaching as they may meange to find mency for. Decca on the other hand will be nothing but a true teaching University of the highest type for which all required funds will as a matter of course be supplied by a liberal

Gaternment. The Syndicate desire me to say that they must respectivity but decidedly protest egainst the position which the iramete of the heport seem minded to manen to the older University. Calcutte has ever since the foundation of the Indian Union versity eigiem been the leading ladian University and bee in tect, by the courses of study which is laid down and which were copied or imitated by all the other Indian Universities, determined the character of higher education all over the country. It moreover bas, through its affiliated colleges. much the most important of which ere located in Calcutta, been a teaching agency at a very high character; no degree use fur the last fity years enmyed a higher reputation all over ludis than the Celentia M.A. degree. The highest tenctions ot a true teaching University were perhaps not fully realized by Calcutte before the passing of the New Universities Act; but, the Synuicate wish to point out, these forcuone were so that time not properly understood anywhere in India, no enconragomens on that line was then received from Government and no funds for direct higher teaching on the part of the University were examinable. But ever since the New Universities Act of 1904which Act was the outcome of a long and searching enquiry into the higher educational needs of the country-had explicitly and emphatically declared that the function of a University is not only to define courses of study and to exemine but to be directly active in the sphere of higher teaching ag as to promote learning and research, the Calcutta University has most earnestly and energetrcally striven to come up to the new standards laid down I am asked by the Syndicate to subjoin in this connexion a very brist sketch of what the University in the course of the last six years has managed to accomplish in the appere of reform and extension of higher post-graduate teaching It began by extending to the MA teaching which had previously been carried on in certain colleges affiliated to the University, the same vigorous system of acroting and nepection to which the BA and B Sa teach-ing in all affiliated Colleges had been submitted The immediate effect of this was that M A, affileation had to be largely restricted, owing to inaufficiency of teaching staff and apphances, and that the tew Colleges which were allowed to retain affiliation were obliged to appoint edditional Professors, to add largely to their Libreres and to provide scientific Laboratories vantly supersor to those they had possessed before But as even after these reforms at was evident that the existing colleges were fae from equal to the task of imparting afficient MA tostruction in all the mara branches of Arte and Science and to all students demanding anch instruction, the University, procending on altogether new lines, next undertook to arrange for soch teaching under the own supposes and partly from its own funds. To thet end it in the aret pleca-carrying out a scheme which had been mooted a long time ago and which indeed is appenially suggested by the conditions provailing at Calcutta-proceeded to constitute groups of M A. Lecturers comprising the most qualified teachers in the bigger Colouts Collages I the idea being thet to this way of combination and co-operation, effective teaching up to the M.A. stendard to various saliscus may be given for which the means of each individual college woold not soffice. And finally the University Inches strangthened these groups of University Lecturers teken from col-leges, by a certain number of independent facturers woo do not hold I rolessorehips to Colleges, lecture to University atodeous only and receive salaries out of University tunds. Its fectures of all the University Licenters-of author class-are delivered at the University hunding and are open to graduates of any affiliated college. This new achemegood deal of furtour atrengthaning and organization has so far proved highly anoceasini and eteracted large numbers of students : I may mention that the University M A Classes to Mathematics are at present attended by more than one hundred Students, and that there mabout the same number in History. Further the University has attited to make a mart in the department of such sdrauced special teaching as may be expected directly to promote research and the axtension of knowledge. is an engaged from time to time the services of Readura to deliver lectures on special advanced Subjects r smoog these Readers there have been man of great eminence whose teaching has had a powerfully etimulating effect on sections of our esmor aindents. And-most important of all-the University has quite recently succeeded in taking the first steps towards the foundation of a Univeresty Professorrate. Six Professorabips have so far been founded, or as good as founded, elthough lectures have not yet been actually delivered by more than one Professor, via, the Minte Professor of Economics whose chair was founded as early as 190d For two of the other Professorahips-those of Higher Pare Mathematics and of Mental and Moral Philosophy-Government have promised to provide funda, one Professorable, for accept indian History and Culture, is maintained by the University out of its own fonds, and the tonedstion of the remaining two-for Obemistry and Physical Science—has been made possible by the generoaity of a private individual-Sir Tereknath Palit. It is expected that the University Professors of Mathematrice, Philosophy, and ancient Indian History will begin to lecture in the course of next session or at the latest in the nest cold season University lectures in Chemistry and Physics on the other hand oan hardly be started before well equipped Laboratories for those two branches of audy have been erected

I conclude this short sorrey of extensions in Higher Tecknip by reterring to the total reform of Law teaching in Beggi which was concorded with the fondation of the University Law College in 1907. In place of a number of ill managed and tentional Law College in the College in the College Beggil was personally entitled by the Law College Law College in the College in the College in the College and the College in the College and the College in the Colleg

Apert from the reform of Law teaching were all that is possible for the present appears to have been done, the Syndicate are acil aware that their endeavours to provide University teaching of the highest kind do not represent more than a beginning end that very much remains to be done hold themselves jumpiled in maintaining that the hegrantog in hopeful and establishes claims to effective help towards further dayslopment. The highly promising institution of University Lecturers would admit of countderable expansion and improvement if the University were in a position to devote more money to re And the most essential went-that of e University Professoriata in which avery imported brauch of study is represented by at least one teacher who is an authority in his subject-cannot of course be realised even approximately without subvection on a scale far esceeding previous scales.

In these carcumstances the Syndicts of the Calciusa Unressys materially russ with magning the Books acknown which, it realized as they see it on paper, will accessitate an occrosso expenditure on the part of Government. What, they said, could be part of Government. What, they said, could like the control of the Calcius and the work of the Calcius and the work of the Calcius and the work begun may not be dropped. Calciust ameroter has begun may not be dropped. Calciust ameroter has invested in this new decalonment not only much thought and labour but a good deal of money. The greater part of the Reserve Fund of the University has in the contra of the last six years been anent on acquiring land required for University Extension and in contributions towards the erection of the Darbhanga Library Building and the new Taw College Costal And the remainder of that fund will have to go before long as a contribution which the University is pledged, under the terms of the Palis bequest, to make tonards the erection of Chemical and Physical Laboratories. The greater part of this money would have been anent in vain if. by the prexpected withholding of further liberal assistance from Government, the Uniceraity would see itself compelled to abandon the idea of bigher decalopments in the teaching line. It must of course he kens in mind that in initiating a acheme of Post-Graduate teaching of an elaborate kind the University has not by any means atruck out for itself a time of edeeptorous policy, the eccutual failure of which it would be bound to accept without marmaring; the fact tather is that it has not attempted anything beyond what it was bound to attempt under the new Regulations framed in strict accordance with the Universities Act. In doing what it did the University therefore throughout felt assured of the sympathy and eventual help of Covernment; and it has not lost this confidence. The University egrely will not be made to anifer for hering been willing so on mous to since for hering been willing sod prompt-ne s much higher degrees then say other Indian University—in gies effect to the principles of University work and University sime which were amounced, in very plain terms, by the suthers of the Universities Act of 1902. And it surely has not yet been forgotten that hardly mora than a year ago those principles were emphatically confirmed in one important item by no less an authority than nue Gracious King-Emperor who in his realy to the Address orestated by the Calcusta Uniceraity referred to the estabhebment of teaching Faculties and the encouragement of Research as the most urgent task before the University.

No comparison in the proper sense can at present be made between the claims on Government assistance of the Calcutta Uniceraty on the one and the Dacis University on the other hand: for while the former manitution to a real heing there which has established claims by the work of half a courney, the latter so far exists on paper only. But a worn may be said, the Syndicate think, as to the relative claims of the cities of Calculta and Danca to he chosen as sease of feaching Corversities. It will suffice to rout out very shortly the main qualifications of Calcuttae the contrast abich Darca processs on all those points need not be applically detailed. Unleasts to not only the buggest bea beyond all comparison the most important town of Bengal-important not only as the scat of the provincial tiperroment and as a great trading and manufacturing place, but also as and aparably being, and as underputably certain to samais, the intellectual centre of Bengal. It contains within its boundaries, and is certain to

sentime to do so a hody of educated men enparing in intelfectual qualifications to, and numerically very much atronger than, the corresponding bodies in any other town of Rangal In consequence of this it noseesers, and will continue to possess. a student population more numerous and on the whole more canable than that of any piber place in the Province. To provide for the wants of its students, up to a certain stage, it possesses quite a number of wellorganised and well-staff d Colleges, several of which by this time look back no a long and distinguished bistory. It is the sent of the foremost Indian High Court and of numerons leasned Societies and Associations, among them the Asiatic Society of Rengal. It reseases a splendid Museum attached to which there are a number of scientific man holding higher rank in their respection departments than any other hady of men in India And it nossesses several important Labreries which ere of the greetest value to advanced atadente.

In view of all the facts stated shove as to the present fitness of the Calcutta Unicersity for University, and the Stores of the City of Calcutta to be the seat of such a University, the Syndicate thick that there would be a great deal of matification for the view that whatever money may be acailable at present for the promotion of Higher University teaching in Beneal should so to Calcutta and nonhern else. The Syndicate do not however wish to set forth this view as their nwn : mainly because they understand that Governmens at and pledged to the catablebment of some kind of University at Dance. But they would adeise than nothing turther should for the present be attempted at Dacca than the attempthening of B.A. and DSo teaching, and of as much M.A. teaching as may meet local remulrements. Higher things may eventually be attempted there later un when a acfliciant basis may have been ereated for them. Should Greenment boneger be determined to sters Dacco at once as a fully equipped Teaching Unicersity of the highest kind, Colcutta should at uny cate receive an equal amount of assistance to a arda ita ow a davelopment. The Syndicate would consider themselves guilty of a decided dereliction of duty if they failed to raise an energetic protest against any attempt to wreck the fature of Calcutta in order to exalt Dacca.

7. Hefections of a similar kind anggest themselees to the Syndicate un consideration of what is is proposed to do at Dacca for the residence of students. That all Indian Universities are aqually bound in make procision for the proper bousing and control of their students is well understood, and the Calcutta University has sudasyunged to dn its best in comply with the new Regulations on that point. That thee best has not so far amounted to eary mach, is doe solely to the fact that there were no funds available to cope atth the enormous task. The Calcutta Mass acheme, with a subvention from Uncerument amounting to Ra. 9,000 a year, has shown stacif altogether insufficients the great need of course is good College Hostels, situated near the

Colleges concerned and well sopervised by the College anthorities Some lakha of Rapees have been granted by Government for that purpose to certain Colleges, the pullication of the grants not being under the control of the University But so far nothing has been actually done and moreover the empunts grapted are absolutely insufficient to meet the real requirements. The Syndicate ere glad to under stand that at is proposed to make very excellent errangements to secure the physical and moral well doing of the inmetee of the Dacce Collegesthose Colleges which exist as well so those which it is contemplated to found But they feel themselves fully justified in asking that the interests of the Col leges ontside Ducca should be equally cared for The needs of Calentta in this line are crying, long recognised, much discussed; they certa nty are cently more urgent than those of Dacca. Here at any rate there appears to be sheelutely no reason for differential treatment of individual mattin tions, ex cept on the basis of actual difference of requirement Even if Dacca were the only Higher Feaching Uni versity of the Provioce by far the greater part of ma students would continue to balong to the non grade ate stage, and why, one asks, should the young men reading in the Dacce Intermediate and 8 A. Classes be provided for on specially excellent lines, while not even the indispensably usedfol has been done for the corresponding sections of atudents to Calcutte and ever so many Mofassil Colleges? Calcutte itselfunderstanding by this term for the moment only the offiliated Colleges in the city of Calcutta-will be fully as residential as Dacce ever can be, as soon as sech of its Colleges will have been provided with a really good hostel, for in what other sense can Dacca be residential than through proper residential Colleges? As to the Mofusetl, the advisability of

providing a number of Mofusail Colleges with lotals large enough to take in considerable numbers and thereby to limit to some extent the present regrettable rush of Mofusail andents to Calcuta, has effect been pointed out, but nothing has so far been done to meet this vary evident requirement.

8 Throughout the Syndicate are of opinion the framers of the Dacce Report have shown themselves rather partial and forgetial of general interests. Great questions anch as providing higher Teaching and Residence for the students of a whole Province -for these are the real questions Government will be called upon to consider - er quire to be treated in e very different spirit The Syndicate hold it to be evident that before the plan of founding an entirely new Teaching University -which will call for very heavy tustial outley and heavy recurring expends ture which is likely to be ever increasing-the needs and claims of existing Institutions should receive the fullest and most careful attention Calcutta, it may be emphasized once more, has taken opon itseli certain bravy responsibilities and obligations which were not created by arbitrary choice but imposed on the University by a body of Regulations framed in atriot accordance with the demands of the Government of India steels. The fremere of the Dacce Report may not have feld called upon to give their attention to enything hot whas might forther the interests, and advance the grandeur and glory, of an ideal Dacca. But the Syndicate of the Calcotta University trust that the outlook of those whose task it may be to jodge and eventually take action upon the Heport, will be of a different kind-that it will be wider and higher and that hance their final decisions may be feir and equitable.

THE HISTORY OF EDUCATION IN THE MADRAS PRESIDENCY

BY DR. S. SAITHIANADHAN, M.A., LL. D. late Frofessor of Morel and Mediat Pollosophy, Presidency College, Madras.

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This is e most useful and valuable book and well deserves the high praise the Director of Public Instruction has given it. The information is very complete, well errenged and well written "

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AN ACCOUNT OF PROP. J. C. BOSE'S RESEARCHES.

[Reprinted from "The Modern Review."]

In our last number we invited our seeders to kindly place us to possession of well-authenticated information relating to all original work done in India by Indian and English professors and their students. Having asked others to do their share of a particule duty, we thought we should not full to do ours. So, having been smong the earliest respects of Prof. 3. G. Boas at the Calentia Presidency College, we grint below of the great perfector's researches in different domain of selection. We believe this to be the first first that has been compiled.

It is unfortunate that either through tack of howeledge or hack of opportunity, our countryeast have little deficite knowledge of the important notatibution that are now being made by India to the stock of the world's knowledge, In the mean that the stock of the world's knowledge, In the more important researches carried out by Prof. Bose, It is our intention to polishis in the section of the count of these of the count of these or the count of these.

Science is International; but we may perhaps expect o certain characteristic which distinguishes the fedien contribution. The locien mind is emineotly synthetic, and on this account when the Indian physicist undertakes to study the action of forces on matter, he is not satisfied with confining his inquiry into the realms of the inorganic alone. but must include in his broad sursey the reactions of lising matter also. He samezes to the imperial stience of Physics, others which go under the name of somel and plant physiology. This consideration will supply a key to the many-sided scientific sclisity of our distinguished countryman. The researches which he has carried out an each branch of science will be found of fundamental importance in that branch. How impertant there has been will appear from the short extracts, which we shall make, from the

various scientific notices that have appeared concerning them.

Prof. Bose's first contribution was on his discovery of-

(i) The polarisation of electric ray by crystals.-

This supplied a very important confirmation of the identity of electric radiation and light. At this time he discovered the very important property of the crystal Nemalite which as regards electric radiation, behaved like Toutmaline to light, His seat contributions were:

- (2) On a New Electro-polariscope : and
- (3) On the Double Refraction of the Electric Ray by a Strained Di-electric.

There two Pepers were published in the Electrician, (December, 1895) the leading electrical journel.

The determination of the index of refraction of various substances is of much importance; it has been possible to do this only in the case of substances which are transparent to light. But a very large number of the so-called opaque substances such a gipth, qual-tar, etc., are transparent stances and a gipth, qual-tar, etc., are transparent sindex for this lurisible radiation offered however great difficulties till Priol. Box derised a method which enabled this to be done with the highest socuracy.

The results of his researches were communicated by Lord Rayleigh to the Royal Society:

(4) On the determination of the Indices of Lictric Esfraction .- Boyal Society, December, 1895.

The Society showed its appreciation of the high scientific value of the research, not only by publication but the offer of a subsidy from the Parlu-

mentary great made to the Society for the advancement of science.

His next contribution wes

Refrectometer.

(5) On a Simple and Accurate Method of deterruning the Index of Refraction for Light.—1894

With reference to the it may be said that Dr Gladstone, TRS, the discoverer of Gladstone's law in Optics, spoke in the highest terms of Bose's

His next contribution published by the Royal Somety was :

(6) Determination of the Wave-leagth of Electric radiation Royal Society, June, 1898

At the time in recognition of the importent contributions made by him for the edwancement of science, the University of London conferred on Prof. Bose the degree of Doctor of Science.

During his first scientific deputation to Europe

by the Government of India, he read a Paper before the British Association:

(7) On a complete apparatus for investigating the properties of Electric waves—British Association, Laverpool, 1886.

Liverpool, [1906].

Among the most interesting festives at the British Association they war was the poper on Electrical Weres writingly ounged. Besser Thirty generalized to the substitute of t

His next paper nublished by the Royal Society was

(8) On Selective Confinetivity exhibited by Polarising Substances, Hoyal Society, January, 1897.

The hebariour of crystale like Tourmaine in chibiting selective power of absorption of light bad hitherto found no explanation. Prof Base working with electric wares aboved that the selective traceparency of crystals like Tourmaine. was due to eelective conductivity exhibited by

The fame of the Boyal Institution of Great Britain, readered ultustrious by the labour of Days and Zaraday, of Rylegh and Rylegh and the Boyal Britain Rylegh and the Boyal Britain Rylegh and the Rylegh

"He would afford the Managers of the Royal Institution terr greets pleasure indead to find that you could gie a Friday Evanue Discourse, embodying the results of some fyoor original works on Electric Radiation (which has excited so much selentified attention) and Blustread by your apparatus."

(9) Friday Evening Ducourse of the Boyel Institution on Electric Waves - Boyel Institution, January, 1897.

These is, however to our thinking numbling of seriestest in the appecule presented, o Bingsier of the interest in the appecule presented, o Bingsier of the prest descent possible interioring in Leaden to an sufficient of appreciation in the present of appreciation in the present of the pres

That Prof. Boss's researches have materially helped practical application will be seen from the following letter from Messrs. Murchead & Co-, who hold patent for wireless telegraphy in the United States of America —

"Just alias to say how plansed wa were to have the opportunity of duccasing with you the hearing of our of the results of your recent researches open certain practical gonals in the manufacture of wireless telegraphes appears, We have already benefited by your well to the construction of the most important part of such appearates."

He was next savited to address the scientific someties in Paris

*Professor J. C. Bose sublidied on the 5th of March before has Softomen an apparatus of his Invention for demonstrating the laws of reflection, refrection and polarisation of electric wave. He expected his experiments on the 22nd. before a large number of members of the Academic de Sciences, among whom were Pulscase, Corne, Mascart, Lipusan, Calliciet, December and other and the control of the Country of the

The celebrated physicist, Professor Cornu, President of the Academy of Science, wrote to him ---

"You my own part, I hope to take full advantage of the perfection to which you have brought your appearant for its besent of the Ecole Tolyschologo end for the said of the Ecole Tolyschologo end for the said of the full research and the to complete. The said of the theory of the tolyschologo end for the control of furthering the progress of actions. You should try of furthering the progress of actions, You should try to further the three tolks of
He was neat invited to lecture before the Universities in Garmany. At Berlin be gare, before the leading physicists in Germany, an address which was subsequently published in the Physikelischen Gesslischafe.

(10) On Electromagnetic Radiation.—Physik-Gea Za Berlin, April, 1897.

The Royal Society neat published bis Paper :

(11) On the determination of the Index of Refraction of Glass for the Electric Ray.

In this he showed the unexpected increase of the index of refraction of glass under other vibration of slow frequency this explained the theoretical difficulties raised by certain electrical properties of glass.

The thinnest film of air is sufficient for producing total reflection of light with its extremely short were-length. But with the longer waves, Professor Bosa discovered a new phenomenon, an account of which was published by the Roysl Society.

(12) On the Influence of Thickness of Air spore on Total Residence of Electric Resistation - Royal Society, November, 1297.

Is was shown that the critical thickness of the air space was determined by the refrecting powar of the return and the were-length of radiation. It opened out a possibility of new methods of determining the index of refraction and also the wavelength.

Certain substances produce rotation of the plane of nolarization of light. Professor Bose discovered

similar rotation of the plane of polarisation of alectric waves.

(13) On the Rotation of Plane of Polarisation of Electric Wates by a Twisted Structure.—Royal Society, March, 1898.

He constructed two kinds of srtificial molecules, which rotated the plane of polarisation to the right or to the left, soalogous to the effects produced by destross sod levulose. As a result of this research many of the obscurities in the phanomenon of Rotation were cleared up.

(14) On the production of a "Dark Cross" in the Field of Electro-magnetic Radiation.—Royal Society, March, 1898.

This imports of research revials the circular moleculer arrangement of revious bodies. A dies of wood with concentric rings was about to produce polarization effect similer to that enhibited by crystals like Salicina.

(15) A Self-recovering Coherer and Study of Cohering action of different metals.—Royal Society, March. 1899.

The effect of electric radiation on fragments of metals has bitherto been regarded as due to coher ing action, bringing about a diminition of electric action in the control of Professor Boes at the

(16) On the Electric Touch and the Molecular changes produced in Matter by the action of Electric Pares. - Royal Society, Fabruary, 1900.

Instead of so called cohering action, the effect of selectio radiation on matter is shown to be one of discriminativa molecular sction; it is further shown that the effect of radiation on metallic particles is to produce molecular or alloctropic changes, attended by changes of electric conductivity.

A description of Prof. Bose's apparatus and an account of his researches on electric radiation will be found in the New Edition of the Locyclopedia Britannica. Frequent references to his contributions will also be found in the classical work of M. Poincere, on Electric Wares.

During his researches on the behaviour of different receivers, ha was led to the discovery of rations reactions in inorganic matter parallel to those of living matter, the result of these researches were given in his Address to the International Congress of Science at Paris, doring his second scientific deputation to Lorope by the Government of India.

(17) De la Generalite des Planomeness Moleculaires produite par Flectreute sur la motters Inorganique et sur la mottere Verante-Francus du Congres International de Physique, Paris, 1904.

He read another paper before the Brotish Association

(18) On the similarity of effect of Electric Stimulus on Inorganic and Living Substances.— British Association, Bradford, 1990

The investigation of this subject was carried on later by the employment of a method slingether different, but which afforded independent support to the mercious results.

different, but which afforded independent support to his previous results

(19) On an Artificial Rating—Exhibited at

Britain Association and Royal Institution, 1900,
"For Bose exhibit de exciticity to the intercomechanism of which was sook as to excite it to gire
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Certain characteristics of his artificial ratus led Prof. Bose to predict that the human retuna bould exhibit hincouler alternate of ration—a pominarily which was quite moniported For distection of this peculiarity he investigated apparatus by means of which be demonstrated the new phanometron before the Physiological Society of London

(20) On Bracellar Alternation of Vision -Physiological Society, London, 1900

His next contributions published by the Royal Society related to the action of light on matter

(21) On the Continuity of rifict of Light and Electro radiation on Matter - Hoyel Society, April, 1901.

(23) On the Similarities between Mechanical and Badiation Strain - Royal Society, April, 1901,

in his next paper his advanced a new theory of photographic action, which explained many anomalous results

(23) On the Strain Theory of Photographic oction -Royal Society, April, 1901

At the British Association meeting at Glasgow be described a naw method of investigation for determining the molecular change produced in metal by electric variation.

(24) On the Change of Conductivity of Midallic particles under Cyclic Electromotics Fariation.— British Association, 1901.

(25) The Conductivity Curvegraph, -- British Association, 1901.

The very thorough sindy which has been given to the certion action of others by Frotesor Jugada Cheecke Rose readers his paper before the British Association Rose readers his paper before the British Association (largery) a very important occurrent the whole subject from a tword statedpoint, the author made a sumber from a tword statedpoint, the author made a number of apprentions with a most following a sparsatus which has the control of the control o

Prof Bose was for a second time honoured with the request from the Royal Institution to give a Friday Evening Discourse.

(26) On the Response of Inorganic Matter to Stamulus - Fridey Evening Discourse, Royal Institution, May, 1901.

"The lecture on The Response of longuate Matter to Mechanical and Electured bitming which Dr J U Boas detacred at the Royal Institution last Friday esemble, affords astriking fillustration of the far resching character of the long and also rate series of reaserches which the lecturer has been carrying on dering the past few years

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specially, of the Presidency College of Calentia."---

Prof. Bose's next-subject of inquiry wes whether the ordinary plants were not fully essentive. The presuling rise was against such supposition. He, however, was encoessful in devising a new modo of investigation by which the universal sensitiveness of plants was fully demonstrated before a special meeting of the Linness Nociety.

(27) On the Electric Response in Ordinary plants under Mechanical stimulus.—Linnuan Society. March. 1902.

With Daw performed a sarian I aguatimula before the Linean Society having electric response for called portions of the plant organism, which proved that an occoming fatigue, behaviors a blight and Jun temperature, has effects produced by poisons and sensitively the representant destination of mental and arrer. He drew the had been been to be the control of the con

Prof. S. H. Vices, F. B. S. President of the Linuan Society, wrote to the author:-

"Note reprinted made it lear beyond doubt that all the control to
The President of the Botanical Section at Belfest in his address said :--

"Some vary stifking results earn published by Rose not be Electric Response to ordinary plants. Bose a tweetingston established a very close aimitanty for behaviour between the vegetable and the animal. Sommation effects were observed and testigue affect demonstrated, while it was dendiedly shown that the responses were while it was dendiedly shown that the responses were was liked by beating. These observations attractions considerably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderably the view of the identical nature of the animal confiderable confiderably the view of the identical nature of the animal confiderable
mel and the vageteble protoplasm."

(28) Sur la Reponse Electrique de la Matiere
Vivante—Society de Physique, Parie, 1902.

(19) On the Electromotive Wave accompanying Mechanical Distorbance in Metals.—Royal Society, May, 1902.

He was next saked by the Boyal Photographic Society to gise a Discourse on his Strain Theory of Photographic Action,

(30) The Latent Image and Melecular Strain Theory of Photographic Action - Transactions, Photographic Society, London, June, 1902.

His next communication was to the Linnean Society giving an account of his discovery of rhythmic electric pulsation in the Telegraph

Plant.
(31) On the Electric pulsation accompanying Automatic movements in Desmodium gyrans.

Linnean Society, 1902.

His next work gives a complete account of the investigations on the response of increasic and

living substances.
(32) Response in the Living and the Non-

Living .- Longmans, Green & Co. 1902. "The responses in plante and matala were shown by as animal tissues are modified, there being not a single theremenes in the response in muscle or ners that has not an aract parallel in the ramones of metal and plant. Just as the response of animal tissue is found to be exait. ed by at Smulanta, lowered by decreasors and abolished by poisons an also it is found that under the action of appropriate reagents, the response in plants and metals nudergoes similar exaltation, depression or sholltion. The conclusion ranched by Prof. Bose, therefore, is that i conseits for response is not confined to living tissues the tiging response in all its diverse manifestations is but a seritition of phenomena exhibited by the icorrente. there is in it no clament of mystery or caprice , as is admitted on the essamption of a hypermechanical 'vital force' acting in contradiction or defauce of those physical laws that covern the world of metter; the response phenothene are not determined by the play of an unknowable and arbitrary vital loace, but by the working of lewether know no change, acting equally and nationally throughout the organic and inorganic world, - Essi serias Magazia.

Op. Book seem which is apprintent to thirting and dead **Op. Book seem which is apprintent to thirting and dead the one kind of matter to the other, and then some there the one kind of matter to the other, and then some there is a superior of the other of the other of the other polescord and temporally **killed. Then another found to it lives matter has been assessed to physical science, or rather, the does not little has been expended, Prof. Book and the other of the other other of the other other other absolutely closed.** "Engineering as in their to considered stoolutely closed." "Engineering."

"I.O. Bose, in his Respons to the Living and the Niceleirs, alter showing that noder selectrical simulity plants chibit falges, etc., and are affected his estimate proserved to the property of the control of the control served to the control of the control of the control falgest? there is a threshold of response to relations of shallowed by the control of the con

Herbert Spencer wrote to the enthor :-"Notices of your love-ligations have from time to time
arched my interest. The topic is one of extreme interest,

and one which in earlier years would not improbably have secrived don recognition in my book "

During the next three years (1903—1905) Prof. Bose turned his attention to researches in to the various responsive reactions of plants. For this his mented a number of original types of recorders which rereaded many numbered phenomena in plant-life. We give accounts of only the most important of these

(33) The Mechanical response of Ordinary ploats.

By means of his delicate instruments ha demonstrated that even ordinary plants gave motile reposite

"These effects (of confinction) are ownervable not only in so-called "sensition plants, but in all littlery parts of plants, and it has definite advanced use to Br. Boses

delicate aspertmentation, to have it shown that all radial organs, stems styles and sismens, shorten on alimnts tion — Years (34) Effects of Drugs on Response of Plants.

In this he demonstrated the remarkable similarities of effect produced by drugs in plant and animal.

(35) Deoth spasm in plants.

No sign has hitherto been found to determine the exact moment of the death of a plact. Prof Bose decovered that e spain passes through the plant at the critical moment

(36) The Morograph.

This testrument records the critical point of death of the plant with great executess. It else demonstrates the translocation of the death point noder different conditions.

(37) Polor Effect of Current in Exertation of pionts.

This important discovery by Prof Bose shows that the excitatory reaction in a plant is determined by the point of entry or suit of an electric current. It establishes the identical nature of sentation in the animal and the regetal protoplasm.

(38) Electro tenta in planta,

In this the variation of excitability induced by Acode or Kathode, is demonstrated to be identical in the case of animal and regetal insues,

(39) Electro-tactile Response

This discovery furnishes a new mode of detecting the parsaga of excitation in plants,

(40) Multiple response in plants

The discovery of repeated responses in plants under strong stimulation, led to the elucidation of the most obscure phenomenon of spontaneous more ments.

(41) Inquiry into Causes of Automatic pulsa-

One of the most intricate phenomena to physiology, as the occurrence of spontaneous morement, so-called. No autofactory explanation has been offered to account for it. As a result of a long course of investigation, Prof. Bose succeeded in tracing the acciting cause.

"This is most valuable and interesting accords of deprincing, defining an explanation as necessors arremata, and his relation to multiple response. After a scarded permat of this, one is considered that "Actiated and the second of the second of the second ignorance of the researcher provincing," solid not acceptance, and for which we could see no immediate attention. Experiments here described on Displaying and Demokra to the low 's accountaing,' in see the other Demokra to the low 's accountaing,' in see the other simply the resist of the condition of the piece, and the stimulate to which it has been controlled." "The athlesses,"

Prof. S. II. Vince, P.RS, President of the Linnean Somety, wrote to bim t-

"Il seeme clear this yea have residiousless accom-"Il seeme clear this yea have residiousless accomled to the company of the company of the comledge of the response of beaut is estimatus. Sportmanean nonrements have always been additionally, but your resisentse to give the clear, to aggest their three has not been accompanied to the company of the company of the section of the clear that the company of the comways movements that the result of the accidence of a submission within the result of all that has a clatted of a substitute result of all that has and inherit you have been that there must be a great deal more to be discovered along the lines that you have opened upon the com-

(42) Influence of Temperature on Automatic response.

In this is shown the parallelism of effect of temperature on rhythmic plant tissue and the cardisc tissue of the animal.

(43) Effects of various Drugs on the Rhythinic pulsation of plant

Among the most interesting of the expelications these designs with the action of size? The identity of phenomena is both in the interest of size? The identity of phenomena is both in the interest of any size of always are of phenomena of the property of the size of always are that of the size
He nest investigated the important problem of (44) The Different Effects of Drugs on Plants of Different Constitutions.

By subjecting a specimen to certain specific conditions, he was able to make it immone to the action of poison from the effect of which others auccumbed.

(45) The Shoshungraph for Researches on the Ascent of Sap.

This is a new type of instrument invented to record the suction of liquid by the plant.

(46) The Grouth Recorder.

Accurate investigation on the phenomenan of growth has been readered possible by the invention of this apparatue, which records and gives instantageous measurement of the rate of growth-

"The apparates and the experiences in rethree ampley of the apparates and the experiences of the experience of the exper

(47) The Balanced Crescograph.

optimum point of growth-

This instrument based on a novel principle is employed for determining the influences of various ageouse on growth.

(48) Researches on Thermo-crescent Curve.

This is a long investigation on the effect of temperature on growth, and the determination of

(49) Researches on Positive and Negative Geotropism.

The outcome of this investigation is to show that the opposite ranctions of growth on the shoot and the root ete not due, as has been supposed, to two different sensibilities but to the differences in the points of application of simulus in the two class.

. (50) Determination of the Lans of Growth.

Certain important factors in growth discovered by Prof. Rose, had not bitherto bean recognised. Taking account of these, a complete law of growth currenture is enunciated.

(51) Fundamental Responsive action of plant to the Stimulus of light.

(52) Researches on Positive and Negative Heliotropism.

All the various responsive movements of plants under the action of light is shown to result from certain deficite and fundamental resctions.

(53) Researches on Diurnal Sleep.

[54] Torsional response under Stimulus of Light and Gravity.

The conditions which determine this response are traced and a law enunciated.

Prof. Boso next published his exhaustive work on responsive reactions of plants.

(55) Plant Besponse as a means of Physiologicaf investigation. - Longmons of Co. 1900.

A biologically equipped reader will experience densited charlestof for the injects progressive way, in which the anbee buildamp, not in worst, but actually experience that the supplementation of the supplem

"This book may be ecolaimed as a path-brashing ous; for it shows a method of stisck and refinement of instrumentation for the study of the phenomene of irritable reactions in plants, that is sure to be aff the utmost serios" "Belancial Generals.

« Perf. Bona's work is monament of scientifically direct and bedoutry prilated observation, far-reaching ingeneity and tepted investigation. While chieft of interest to behavior, it commercially a situe that stemics of serious behavior of the serious serious serious serious beinglei contribution in the norwealing of the problem of life. The many appriments bear described are admirable to conception and in their execution the author has energiced many committee that and beautiful forms of energiced many grounders of the serious serious consideration of the serious serious serious serious energies of the serious serious serious serious serious energies and the serious ser

"The work rapiesocks as cormons airide in our conception of the vagatable kingdom. It throws light on many problems in general physically, and is a welcome contribation to see knowledge of miscalar physics. It follows and clearly demonstrates, the beyondom contrinant clearly demonstrates, the carrier can give of the octable world induced the vagicable like the animal organism, and by a more or less similar mechanism,"— Electrical Regions.

"With the appearance of the important both by Professor Bose, on "Plant Response," on here for the dist time a conception which contracts all the system contracts which contracts all the system complete theory of their movements, We may add half it so we which no plant physiclogist can affold to ignore, which on stadent of any missed or both or plant prove aggregative to animal which should prove aggregative to animal

physiologists, possibly even to psychologists,"-Ike

"It may be unbesistingly said that a careful reader of the present volume must be impressed by the ignessity of device and the delicery of meriphetics, Assuming throughout the whole of the experimenting. Assuming that the matraments work executy as described it is difficult to reach conclusion which differ materially from those stated by Professor East"—A services Journal of Science

His theory of the fondemental authornity of all plant response nectably most librariestly rade on the response to related by most librariestly rade on the rich has brings forward a great weight of evidence. The write of his book is a in the petrent theory put forward, and in the fact it it has it the first to apply to the stody of plant reports, appraising which he has industriated have extra reports, appraising which he has industriated have extra the method of stock on the problems of mrissbility in plants "". Jersaries of Batasy

the Plant Response, various excitatory effects were detected by means of mechanical response and recorded by the specially sensitive instrument invented the purpose Prof Bosa next turned attention to discover and perfect other mathods of investigation by which the various invisible excitatory reactions in the plant, induced by different forms of stimuli, could be detected and recorded. The methods now employed were alcotrical, by means of which various response phenomena were discovered to the plant, the existance of which was quite unsuspected. These particular investigations were carried on for the next three years from 1906 to 1909

(57) The Electromotive Response of plant

This gives an account of the result of research on various effective methods of quantitative atimalation of the plant, and the electric record of the resulting response

(58) The Relation bet ven Stimulus and Response Weber Fechner's law is shown to be applicable

to the plant-response as in that of the animal (59) Rheotomic Observation of Electric Response of plant

This research determines the time-relation of initiation, climax and decline of electrical response (60) Demonstration of Dual Character of Response

In this is given an account of the discosery of the existence of two distinct kinds of response, whose signs are opposite. The discovery of positive response throws light on many physiclogical reactions which had hitherto been regarded as very obscure

(61) Detection of Physiological Anisotropy by Electrical Response

An account is given how owing to the differences in the previous history, different parts of an isotropic argan become anisotropic, an electrical method is described to detect such physiological anisotropy.

(62) Natural Current 18 a plant and 14

This investigation was carried out to determine the condition under which there is a flow of electrical current in a plant, and the changes in the current.

(61) Electrical Investigation on the Action of Drugs on plant tissue

The physiological change induced in the plant tissue by verious drugs is determined by means of variation of electrical response.

(64) Determination of Variation of Ezontability of plant titue by Uethod of Interference

Tom is a new and extremely delicate method by

which a al ght physiological change is detected (65) The current of Injury and Negative varia-

tion in plant.

(68) Current of death

(67) Effect of Temperature on Electrical Re-

(68) The Electrical spasm of Death,

aponese

This is a remarkable phenomanon discovered by Prof. Bose, of a sudden electrical current generated in the organism at the critical moment of death

(69) Multiple and Autonomous Electrical Response.

It is here shown bow the electrical response becomes repeated under a single strong stimulus. This as an andependent demonstration of the fact that living ties is can store up, for the time being, the energy of its environment, to be given out later in that form of repeated polisticus.

(70) The Electrical Response of Leaves

It has been supposed that the leaf of Douata was along sensitive. This research shows that overy leaf a scutable and gives electrical response on excitation

(71) The Lest considered as an Electrical Organ. It is shown that using to physiological annotatopy of this appear and lower surfaces of lacets, a feeble electrical discharge takes place across the leaf when certain conducting times in the petules are excited.

(72) The Theory of Electrical Organ.

The complex organ of the electrical fish consists of a series of plates. Prof. Bose shows that the section action of each plate is fundamental electrical control of each plate is fundamental electronic plate. The electronic plate is the section of the electronic plate is a leaf. In connection with this he shows that he socialled "bluec current" which has been exposed to discriminate a vital reaction, is observed also in certain incorrangin operaction made by him.

(73) Researches on the Electrical Response of Skin, Epithelium, Gland and Digestive organs in plant and onional.

(74) Electric Response of plant to the Stimulus of Lion.

The various characte, wice of the response of plant to light is shown to be to the electric feating of light on an animal reties.

(75) Geo-electric Response.

In this research is described a new method of detecting excitation induced in the plant by the stimulus of gravity.

(76) The Conductivity Balance.

The invention of this method enables very accurate determination of the effect of various drugs on the conductivity and excitability of the Plant-tisme.

(??) Besponse by Variation of Electric Be-

stilisity.

Another new method depending on variation of electrical resistance, is described for the detection

ol excitatory change.

(78) The Molecular Theory of Excitation and its Transmission.

In this the author enters into detail of the molecular aspect of excitatory charge induced by stimulus.

(79) Increase and eroanic Memory.

*FIG. Does pais forward an interesting theory of unmory and after-effect of reserver stimulation, and deals with the much more difficult problem of the retried class tanged long after the has experiently fided, which is a superior of the state of the state of the local contraction of the state of the state of the local contraction of the state persistent disposition or the state, or on a vestice persistent disposition or the state, or on a vestice persistent disposition or the state, or on a vestice persistent disposition or tendency to movement created there. Prof. Beetractions of the state of the factors; first, that molecular change with concenting a state of the state, delivered as a blow from which, by an impolation of the state o

His next work is a complete study of various electric responses in plants and their relation to the corresponding phenomenon in the animal, resided according to the commarative method.

(80) Comparative Electro-physiology.—Longmans 4 Co., 1908.

We must recald the common divisions represented by the verious sciences - say physics and biology - as purely manamade categories, excusable, and indeed consenient for our purposes, but without one ultimate wattent in reslity. We shall therefore, sixeya be prepared to listen when a at odent of one science introduces his methods into enother. It might easily be shown from the history of science that the creat stern in our knowledge have coincided with these invasions. It might also be predicated from current in-nairies in many fields that the great scientific echievement of our century will be hope other than the synthesis of the sciences. The less we recognise boundaries and demercations the more we recognise the supreme troth. Notable at the present day, emongst thore who show how peay and ertificial and cramping are the accepted herriare among the sciences, is the Indian Physicist, Prof. J. C. Been of Calcutta. Seven usure and Dr. Bose began with logolities into sesponse in the tiving, end non-living which he has now carried a loog stage further in his book "Comparative Ricctro-physiology,"- Westmiester Garette.

The electrical phytology of mucle and ners have overgone man change both in theory act question. It has been left to Prof. Deas to take u wide view, of the subject and to correlate the electrical change is the searmonotals appearance of the satisation with similar, has have howeve changes occurring in the bolanical world. The either has made a variable contribution to the inverticing the search of the contribution of the inverticing like activations or undeal site to the phytologist (oncerned with militaries and plants), the phytologist and the psychologist, "The Atlancem."

"This book will fetured a large circle of scientific reader, dealing or is does with the problem of physics, below, physiology and experimental psychology, the asabre, when he sain England, ecquired a reputation for the atili sed ingeneity with which his expansion was the sain and the state of the sain and the sain set of the contrastance of this. The hook common he has given further instances of this. The hook common as part of the curticism of the sprinchingth, To the physicist, perhaps the mask leterasting thing in the Magnetic Conductivity much provided the sain of exceeding interest."

— Mortivales or Exprinced and of exceeding interest.

The state of the s

cannot be regarded as a sign of life, bus domonatration on the motile leadlets of Diephytem of the smooths and kathodic effects of comiant current, and the selective of transmission of excitatory waters, his comparison of recentiveness of molecular change in metals with memory, in fact the whole book abounds in interesting matter skillfully wover together "——Advar.

After the publication of the Comparatus Electrophysiology, the Government of India sent Prof. Bose on his third Scientific Deputation to the West (1908-1909) In answer to invitations extended to him by different Universities and Scientific Associations, he visited America and delivered a series of lectures on the results of his own researches He geen an eddress at the annuel meeting of the American Areocution for the Advancement of Science held at Baltimore, and lectured before the New York Botsmical Society. the Medical Society of Boston, and the Society of Electric Engineers at Chicago He also delivered a series of post-graduate lectures on Electro-physics and Plant-physiology at the Universities of Illinois, Ann Arbor, Wisconsin and Chicago

The United States Diputiment of Agriculture is the largest in the world, controlling as in doze, numerous experimental stations and having in its staff a step large number of separate for investing a staff as the large number of separate for investing the staff as the large number of second to the large station of the large large number of second for one where the large large number of second of the large
We have given a list of 80 imposited inseatgations curried to diving fifteer year, however the years, 1895 and 1910-investigation between the professional contractions of the profession of the of second. We understand that smother way imposted and extended sense of insestigations curried out for the last two years has yest been curried out for the last two years has yest been curried out for the last two years has yest been curried out for the last two years has yest been curried out for the last two years has yest been which these and the last of the profession of the way which these I to generally the publish as the beground of the coming years to publish as the

Ore of the seantal conditions for the discovery of new physical or hymological phenomena, is the successful invention and charged phenomena, is the successful invention and charged phenomena, which should combine at the successful. Foothers sensitives and the bucket accorner. Foothers sensitives and the bucket accorner. Foothers for this are quily stabled in West and the successful with with expet mechanicisms and bygbodies undermatch mixer. The brick of such facilities was regarded as one of the difficulties that could not be surrounded in India. Fort. Hose accepted the

Instations unpeced, and accessed with the help of Indian workman in constructing those continues of sequents delicacy, which were so invalidable for research, and which have come so highly subquist in Europe. It must be matter of much gratifiation to us that America, which stands survivaled in her nechanical and instrumental resource, should have to come to India for instruments of research. The following latter from Prof. It like per of the Department of Plant Prof. It like per of the Department of Plant Prof. It like per of the Department of Plant Prof. It like the pe

· I wish to express to you once more gor earf bigh ep practiction of the stimulus and inspiretion which you gave our biological work by your ractor lectores at the Univer-sity of Wisconsin - To N attracted a great deal of altertion in all the colemnia departments bers. I wish to sign sgain the very great impositous for ell the Universities and Agricultural Colleges to which plant physiology is taught of basing your instrument pai to the market so that they wilt be available for all faboratories. In our convex agreement physical and a serious control as general physicalogy, we have for saveral years repeated and confirmed soon of your simpler experiments as can be made with a gaivennmenter and we are most according to the control of the serious contro titative study of pleat responses which you have open Pleat physiology is a subject of such fundamental algoideance from the standpoint of agriculture, and the courses to it are being so rapidly developed to the West-ero Universities, that I am sum that there would be a good demand for such apparatus It is cortainly of first importance for agriculture, that such studies se yours on the seasonal ventation of coodston is plants, rats and factor of growth and so on should be developed in our departments of plant physiology to the fullest extent, and for this purpose apparation for quantitative studies is quite indispensable

- The Modern Review, December, 1912.

Laving and Non-Living

For of is can realize the difficulties that stand in the way of a power who intuites a new hose of inquir. If has to make laughtle what had hisher resusted by your time opportunities of human senses. But this against a standard of the standard of the sensor is knowledged and the re-right mannel of the old. Conservation in actions is a rignous as in any other domain. It therefore takes a long time before the aguidance of a discovery is fully realized.

In the study of the phenomenon of life, the difficulties met with are so numerous that any attempt at a consistent call numerous that acquired to be supplies task. Hence a hypermechanical rital force was assumed which seemed to act in contradiction or defance of the physical laws that graren the world of matter.